FINAL

REVISED BAYOU L'EAU BLEU WATERSHED
TOTAL MAXIMUM DAILY LOAD
FOR BIOCHEMICAL OXYGEN-DEMANDING SUBSTANCES AND NUTRIENTS

SUBSEGMENT 120303

SURVEYED June 29 to July 6, 2004

REVISED TMDL REPORT

By:
Water Permits Division
Office of Environmental Services
Louisiana Department of Environmental Quality

ORIGINAL REPORT: MARCH 31, 2008
REVISED: SEPTEMBER 15, 2016

EXECUTIVE SUMMARY

This report represents a revision of the Bayou L'Eau Bleu Watershed (Subsegment 120303) Total Maximum Daily Load (TMDL) for biochemical oxygen-demanding substances and nutrients. The report was originally finalized on March 31, 2008 and subsequently approved by EPA. At the time, Subsegment 120303 was listed as impaired on the EPA's consent decree. According to the 2004 Integrated Report (IR), the subsegment was listed as not supporting its designated use of Fish and Wildlife Propagation (FWP); it was found to be fully supporting its designated uses of Primary Contact Recreation (PCR) and Secondary Contact Recreation (SCR). The suspected causes of the FWP impairment were low dissolved oxygen (DO) and nutrients. The suspected sources of impairment were forced drainage pumping, natural sources, on-site treatment systems, and package plant or other permitted small flows discharges.

On May 9, 2008, a use attainability analysis (UAA) was completed for Barataria and Terrebonne Basins to determine the appropriate DO criteria for waterbodies in the region, both annually and by critical season. The EPA approved UAA determined more appropriate DO criteria according to critical season for waterbodies in the Barataria and Terrebonne Basins. The results of the UAA were adopted as regulatory changes into Louisiana State law on March 20, 2009. Based on the results of this UAA, DO criteria for streams in the subsegment are:

2.3 mg/L	March through November (critical season)
5.0 mg/L	December through February (non-critical season)

For Subsegment 120303, the critical season for DO was expanded from May through October to March through November, and the non-critical season was changed from November through April to December through February.

This TMDL revision incorporates new DO criteria and changes that have occurred since the 2008 report, including: one additional point source discharger, the discontinuation of water quality network (WQN) Site 0931 and addition of WQN Site 2843, updated critical conditions for temperature based on new ambient data, and minor updates to the calibration file to address modifications with the LA-QUAL model. The summer and winter projection models have been updated based on the updated loadings, critical conditions, and DO criteria. Summer and winter TMDLs for oxygen-demanding substances have been recalculated based upon the new model results.

The 2014 IR showed that Subsegment 120303 was not supporting its designated use of FWP due to turbidity; there were no impairments for low DO. The subsegment was fully supporting its designated uses of PCR and SCR. The draft 2016 IR indicates Subsegment 120303 is fully supporting all designated uses and is meeting current DO criteria. The Louisiana Department of Environmental Quality (LDEQ) notes that in 2004, WQN Site 0931 was replaced by WQN Site 2843. The relocation of this site into an area with more representative water quality conditions may be a factor in the impairment delisting.

The original LA-QUAL modeling effort was conducted to establish a TMDL for biochemical oxygen-demanding pollutants and nutrients for Bayou L'Eau Bleu. An intensive survey was conducted on Bayou L'Eau Bleu from June 29, 2004 through July 6, 2004, with water quality sampling occurring on June 30, 2004.

According to LDEQ's Tools For Environmental Management and Protection Organizations (TEMPO) database, there are two permitted dischargers located within this subsegment: the Town of Lockport Publicly Owned Treatment Works (POTW) (AI# 19435) and Valentine Prospect (AI# 194278). The Lockport POTW is designed to handle a flow of 900,000 gallons per day (gpd) and discharges directly into Forty Arpent Canal, upstream of the Al Robichaux Pump Station; water from Forty Arpent Canal can be pumped into Tom Foret Canal, and thence into Bayou L'Eau Bleu. The inactive WQN Site 0931 is located in Bayou L'Eau Bleu near river kilometer 7.4, which is downstream of its confluence with Forty Arpent Canal. Valentine Prospect is a proposed oil and gas production facility, with a wastewater treatment system designed to handle a flow of 3,690 gpd. Its discharge route travels via local drainage canals, thence into Bayou L'Eau Bleu. The original TMDL included only the Town of Lockport POTW as a permitted discharger. Other than the Town of Lockport, the area is sparsely populated and land use is dominated by agriculture and grassland. There are patches of wetland along the bayou to the southwest.

In addition to Tom Foret Canal, there is a hydrological bypass in the upper reach of Bayou L'Eau Bleu connecting it to Company Canal (likely to facilitate oil and gas related barge traffic) that will be referenced as Barge Canal in this report. Flow in Bayou L'Eau Bleu is likely split between the headwaters and the Barge Canal. Barge Canal and Tom Foret Canal were not modeled, but are brought in as boundary loads through the wasteload section of the model. Since pump station data could not be obtained, flow from Tom Foret Canal at calibration conditions was assumed to be the average discharge monitoring report (DMR) flow from the Lockport POTW for June and July 2004. The discharge rate pumped into Forty Arpent Canal near WQN Site 0931 is considered negligible at low flow conditions. The subsegment also includes the lower portion of Hollywood Canal and unnamed oilfield canals south of Lake Long.

Input data for the calibration model was developed from data collected during the June 2004 intensive survey, data collected by LDEQ monitoring stations in the watershed, and data garnered from previous LDEQ studies on nonpoint source loadings. The nonpoint source loads included nonpoint loadings not associated with flow. A satisfactory model calibration was achieved for the main stem of Bayou L'Eau Bleu. For the projection models, input data was taken from ambient temperature and DO records. Projections were adjusted to meet the DO criteria by reducing total nonpoint source loads; the various spreadsheets that were used in conjunction with the modeling program may be found in the appendices. The Louisiana Technical Procedures (LTP) for TMDLs has been followed in this study.

Modeling was limited to low flow scenarios for both the calibration and the projections since the constituent of concern was DO. The model used was LA-QUAL, a modified version of QUAL-TX, which has been adapted to address specific needs of Louisiana waters.

This TMDL establishes load limitations for oxygen-demanding substances and goals for reduction of those pollutants. The implementation of this TMDL through wastewater discharge permits and

implementation of best management practices (BMPs) to control and reduce runoff of soil and oxygen-demanding pollutants from nonpoint sources in the watershed will control and reduce the nutrient loading from those sources.

Potential sources of biological oxygen demand (BOD) and nutrient loadings may be the pumped diversion of the Mississippi River into Bayou Lafourche at Donaldsonville, Louisiana, some of which is diverted into Company Canal thence into Bayou L'Eau Bleu. High levels of chlorophyll *α* measured in Bayou L'Eau Bleu during the survey may have been influenced by nutrients from the Mississippi River, and contribute to some of the sediment oxygen demand (SOD). Point and nonpoint source controls in the Bayou L'Eau Bleu watershed will not address this source.

This report presents the results of the projection model using the critical season (summer) DO criterion of 2.3 mg/L and the non-critical season (winter) DO criterion of 5.0 mg/L for the Terrebonne Basin The results of the summer projection model for Subsegment 120303 show that the water quality standard for DO of 2.3 mg/L can be maintained during the critical season with a 60% reduction in man-made sources of pollution; the minimum DO concentration in the summer projection model was 2.67 mg/L. The results of the winter projection model for Subsegment 120303 show that the water quality standard for DO of 5.0 mg/L can be maintained during the non-critical season with a 50% reduction in man-made pollution; the minimum DO concentration in the winter projection model was 5.12 mg/L.

These reductions provide 10% for future growth and 10% for margin of safety. Given the 2014 and the draft 2016 IRs indicate that Subsegment 120303 is meeting the current DO criteria, LDEQ recommends that implementation of additional nonpoint reductions be given a lower priority at this time. The TMDL summer and winter load reductions are presented in Table 1. There were no appropriate modeling reference streams to calculate background conditions. LDEQ believes the existing permit limits are protective of the criteria and designated uses. Similarly, the LDEQ anticipates that permitting future discharges in accordance with existing state regulations, policies, and guidelines will be protective of the water quality criteria designated uses. Permitted discharges located in Subsegement 120303 are listed in Table 5.

Table 1. Total Maximum Daily Load for Bayou L'Eau Bleu Subsegment 120303

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAR-NOV) (lbs./day)	% Reduction Required	(DEC-FEB) (lbs./day)
Point Source Waste Load Allocation	0	174	0	174
Point Source Margin of Safety (10%)		22		22
Point Source Future Growth (10%)		22		22
Nonpoint Source Load Allocation	60	7,162	50	7,552
Nonpoint Source Uncertainty (20%)		1,790		1,887
TMDL		**9,170**		**9,657**

LDEQ has developed a nutrient management strategy in cooperation with other state and federal agencies (e.g., Coastal Protection Restoration Authority, Louisiana Department of Agriculture and Forestry, Louisiana Department of Natural Resources, Environmental Protection Agency) (Louisiana Nutrient Management Strategy Interagency Team, 2014). The nutrient management strategy

incorporates both nonpoint and point source management as well as riverine diversions in managing nutrients in Louisiana. LDEQ recommends that all facilities discharging to impaired waterbodies take a proactive approach in managing or reducing nutrient loadings to local waterbodies. Such a proactive approach may include nutrient monitoring and documentation through facility Discharge Monitoring Reports (DMRs) in order to assess nutrient loads and the need to modify treatment processes for nutrient removal. LDEQ will work with other agencies such as local Conservation Districts to implement agricultural BMPs in the watershed through the Clean Water Act (CWA) Section 319 (nonpoint source) programs. LDEQ will also continue to routinely monitor the waterbody to determine whether standards are being attained.

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

The LDEQ is continuing to implement a watershed approach to surface water quality monitoring. In 2004, a four year sampling cycle replaced the previous five year cycle. Approximately one quarter of the states watersheds will be sampled in each year so that all of the states watersheds will be sampled within the four year cycle. This will allow the LDEQ to determine whether there has been any improvement in water quality following implementation of the TMDLs. As the monitoring results are evaluated at the end of each year, waterbodies may be added to or removed from the CWA Section 303(d) list.

TABLE OF CONTENTS

EXECUTIVE SUMMARY ii
LIST OF TABLES viii
LIST OF FIGURES viii
1. Definitions/Acronyms/Abbreviations 1
2. Introduction 2
3. Study Area Description 2
3.1 General Information 2
3.2 Water Quality Standards 6
3.3 Wastewater Discharges 6
3.4 Water Quality Conditions/Assessment 7
3.5 Prior Studies 7
4. General TMDL Development Process 7
5. Model Calibration Documentation 8
5.1 Program Description 8
5.2 Input Data Documentation 9
5.2.1 Model Schematics and Maps 9
5.2.2 Model Options, Data Type 2 9
5.2.3 Program Constants, Data Type 3 10
5.2.4 Temperature Correction of Kinetics, Data Type 4 10
5.2.5 Reach Identification Data, Data Type 8 11
5.2.6 Advective Hydraulic Coefficients, Data Type 9 11
5.2.7 Dispersive Hydraulic Coefficients, Data Type 10 11
5.2.8 Initial Conditions, Data Type 11 12
5.2.9 Reaeration Rates, Data Type 12 13
5.2.10 Sediment Oxygen Demand, Data Type 12 13
5.2.11 Carbonaceous BOD Decay and Settling Rates, Data Type 12 13
5.2.12 Nitrogenous BOD Decay and Settling Rates, Data Type 15 14
5.2.13 Nonpoint Sources, Data Type 19 14
5.2.14 Headwaters, Data Types 20, 21, and 22 14
5.2.15 Wasteloads, Data Types 23, 24, and 25 14
5.2.16 Boundary Conditions, Data Type 27 15
5.3 Model Discussion and Results 15
6. Water Quality Projections 17
6.1 Critical Conditions, Seasonality and Margin of Safety 17
6.2 Input Data Documentation 18
6.2.1 Model Options, Data Type 2 18
6.2.2 Program Constants, Data Type 3 18
6.2.3 Temperature Correction of Kinetics, Data Type 4 18
6.2.4 Reach Identification Data, Data Type 8 18
6.2.5 Advective Hydraulic Coefficients, Data Type 9 19
6.2.6 Dispersive Hydraulic Coefficients, Data Type 10 19
6.2.7 Initial Conditions, Data Type 11 19

6.2.8 Reaeration Rates, Carbonaceous BOD Decay and Settling Rates, Nitrogenous BOD Decay and Settling Rates, Data Type 12 and 15 19
6.2.9 Sediment Oxygen Demand, Nonpoint Sources, Headwaters, Wasteloads, Data Type 12, 19, 20, 21, 22, 24, 25, and 26 19
6.2.10 Boundary Conditions, Data Type 27 21
6.3 Model Discussion and Results 21
6.3.1 Critical Season Projection (Summer) 21
6.3.2 Non-Critical Season Projection (Winter) 22
6.4 Calculated TMDL, WLAs, LAs, MOS, and Future Growth 22
6.4.1 Outline of TMDL Calculations 22
6.4.2 Future Growth and Margin of Safety 22
6.4.3 Bayou L'Eau Bleu, Subsegment 120303 TMDL 22
7. Sensitivity Analysis 25
8. Conclusions 25
9. References 28
10. Appendices 30
Appendix A – Detailed TMDL Analysis 30
Appendix A1 – Outline of TMDL Calculations 31
Appendix A2 – Summer TMDL Summary 33
Appendix A3 – Winter TMDL Summary 35
Appendix B – Calibration Model Input and Output Data Sets 37
Appendix B1 – Calibration Output Graphs and Input, Overlay, and Output Files 38
Appendix B2 – Calibration Justification 97
Appendix C - Calibration Model Development 112
Appendix C1 – Vector Diagram 113
Appendix C2 – Reach Set-up 115
Appendix C3 – Calibration Loading 117
Appendix D – Projection Model Input and Output Data Sets 119
Appendix D1 –Summer Output Graphs and Input, Overlay, and Output Files 120
Appendix D2 – Summer Projection Justifications 163
Appendix D3 – Winter Output Graphs and Input, Overlay, and Output Files 176
Appendix D4 - Winter Justifications 218
Appendix E - Projection Model Development 232
Appendix E1 – Summer Loading 233
Appendix E2 – Winter Loading 237
Appendix F – Survey Data Measurements and Analysis Results 241
Appendix F1 – Water Quality Data 242
Appendix F2 – Cross Sections and Discharge Measurements 253
Appendix F3 – Field Notes 266
Appendix F4 – Continuous Monitor 323
Appendix F5 – BOD Calculations 385
Appendix F6 – Dispersion Calculations 396
Appendix G– Historical and Ambient Data 406
Appendix G1 – Ambient Data 407
Appendix G2 – Land Use 409
Appendix G3 – Houma Weather Station Data 411

Appendix G4 – 303(d) List 413
Appendix H – Maps and Diagrams 416
Appendix H1 – Reconnaissance Survey Pictures 417
Appendix H2- Overview Maps 425
Appendix H3 – Land Use Maps 429
Appendix H4 – La Precipitation Maps 432
Appendix I – Sensitivity Analysis 436
Appendix I1 – Sensitivity Summary Table and Output Graphs 437
Appendix I2 – Sensitivity Input and Output Data Set 448

LIST OF TABLES

Table 1. Total Maximum Daily Load for Bayou L'Eau Bleu Subsegment 120303 iv
Table 2. Revised Dissolved Oxygen Criteria 2
Table 3. Land Use in Subsegment 120303 (USGS NLCD) 3
Table 4. Subsegment 120303 Water Quality Numerical Criteria 6
Table 5. Discharger Inventory for Bayou L'Eau Bleu (Subsegment 120303) 7
Table 6. Bayou L'Eau Bleu Range of DO Cycle 13
Table 7. Bayou L'Eau Bleu Flow Calculations 14
Table 8. Bayou L'Eau Bleu Sensitivity Model Summary Table 27

LIST OF FIGURES

Figure 1. Model Layout 4
Figure 2. Map of Study Area 5
Figure 3. Dispersion Calibration 12
Figure 4. Calibration Model Dissolved Oxygen versus River Kilometer 16
Figure 5. Summer Projection at 60% Removal of Man-Made NPS Loads 23
Figure 6. Winter Projection at 50% Removal of Man-Made NPS Loads 24

1. Definitions/Acronyms/Abbreviations

BMP	Best Management Practices
BOD	Biological Oxygen Demand
CBOD	Carbonaceous Biological Oxygen Demand
CWA	Federal Clean Water Act
DMR	Discharge Monitoring Report
DO	Dissolved Oxygen
EPA	United States Environmental Protection Agency
FG	Future Growth
FWP	Fish and Wildlife Propagation
GPD	Gallons Per Day
ICWW	Intracoastal Waterway
IR	Integrated Report
LA	Load Allocation
LA-QUAL	Steady State Water Quality Model developed specifically for Louisiana Waterbodies
LC	Loading Capacities
LDEQ	Louisiana Department of Environmental Quality
LTP	Louisiana Total Maximum Daily Load Technical Procedures
MOS	Margin of Safety
NBOD	Nitrogenous Biological Oxygen Demand
NLCD	National Land Cover Database
NPDES	National Pollutant Discharge Elimination System
NPS	Nonpoint Source
POTW	Publicly Owned Treatment Works
PCR	Primary Contact Recreation
SCR	Secondary Contact Recreation
SEMCOG	Southeast Michigan Council of Governments
SOD	Sediment Oxygen Demand
SOP	Standard Operating Procedure
SSELP	Statewide Sanitary Effluent Limitations Policy
STEADY STATE MODEL	fate and transport model that uses constant values of input variables to predict constant values of receiving water quality concentrations (USEPA, 1991a.)
TEMPO	Tools for Environmental Management and Protection Organizations
TMDL	Total Maximum Daily Load
UAA	Use Attainability Analysis
UCBOD1	Ultimate Carbonaceous Biological Oxygen Demand (fast)
UCBOD2	Ultimate Carbonaceous Biological Oxygen Demand (slow)
UNBOD	Ultimate Nitrogenous Biological Oxygen Demand
USGS	United States Geological Survey
WLA	Wasteload Allocation
WQN	Water Quality Network

2. Introduction

Subsegment 120303 (Bayou L'Eau Bleu, from Company Canal to Intracoastal Waterway (ICWW)) of the Terrebonne Basin was listed on the 2004 303(d) list for not supporting the Fish and Wildlife Propagation (FWP) designated use; it was fully supporting the Primary Contact Recreation (PCR) and Secondary Contact Recreation (SCR) designated uses. The suspected causes of impairment were low dissolved oxygen (DO) and nutrients, with the suspected sources of impairment being forced drainage pumping, natural sources, on-site treatment systems, and package plants or other permitted small flows discharges. A calibrated water quality model for Bayou L'Eau Bleu was developed, with projections for current DO standards to quantify the wasteload reductions required to meet established DO criteria. This report presents the model's development and results.

In 2008, a use attainability analysis (UAA) was conducted on the Barataria and Terrebonne Basins in southeast Louisiana to determine the appropriate DO criteria for the waterbodies in these basins. The UAA also determined if the critical season and non-critical season for DO were appropriate for this region. Based on the results of the UAA, the DO criterion was revised during the critical period for streams and lakes. The revised DO criteria for each critical period of streams in the Barataria and Terrebonne Basins are shown in Table 2.

Table 2. Revised Dissolved Oxygen Criteria

DO Criteria (mg/L)	Critical Season
2.3	March through November (critical)
5.0	December through February (non-critical)

The 2014 Integrated Report (IR) showed that Subsegment 120303 was not supporting its designated use of FWP due to turbidity; the subsegment was fully supporting its designated uses of PCR and SCR. There were no impairments due to low DO. The draft 2016 IR also indicates Subsegment 120303 is fully supporting all designated uses and is meeting the current DO criteria. Based on the UAA results, revised TMDL model projections for DO were developed to update the loading reductions necessary to meet the revised DO criterion for each critical period.

3. Study Area Description

3.1 General Information

According to the Louisiana Water Quality Management Plan, "The Terrebonne Basin covers an area extending approximately 120 miles from the Mississippi River on the north to the Gulf of Mexico on the south. It varies in width from 18 miles to 70 miles. This basin is bounded on the west by the Atchafalaya River Basin and on the east by the Mississippi River and Bayou LaFourche. The topography of the entire basin is lowland, and all the land is subject to flooding except the natural levees along major waterways. The coastal portion of the basin is prone to tidal flooding and consists of marshes ranging from fresh to saline." (LDEQ, 2008)

Subsegment 120303 has topography typical of the river basin, being primarily grassland and fresh marsh. Land use in the subsegment is predominately grassland and wetlands. Agriculture and cropland were grouped together with grassland for the 2014 categorization of land use; agriculture and

cropland only accounted for 3.2% of land use in this general category. A detailed land cover map is included in Appendix H3. A comparison of the 2008 and 2014 land use is shown in Table 3. The data sources used to determine land use differed in 2008 and 2014; the previous TMDL used the LA-GAP dataset, while the revised TMDL used the USGS NLCD (National Land Cover Database) 2014 dataset. Slight differences in the way the land uses were classified between the two datasets resulted in varying acreages for some of the land use categories. However, the total surface area for both datasets was only off by 0.15%, meaning virtually the entire subsegment's surface area was considered.

Historically the area has an average annual precipitation of 64 inches based on a 30-year period of record (Kniffen & Hilliard, 1988). An average annual precipitation map of Louisiana is provided in Appendix H4.

Table 3. Land Use in Subsegment 120303 (USGS NLCD)

Land Use	2014 Area (Acres)	2014 % Land Use	2008 Area (Acres)	2008 % Land Use
Agriculture/Cropland/Grassland	9,264.8	42.1	10,789.0	49.2
Fresh Marsh	7,469.6	34.0	4,222.1	19.2
Wetland Forest Deciduous	3,268.1	14.9	1,838.0	8.4
Developed	1,078.1	4.9	0.0	0.0
Water	664.1	3.0	2,260.9	10.3
Vegetated Urban	174.8	0.8	883.8	4.0
Mixed Upland Scrub/Shrub	52.7	0.2	14.9	0.0
Barren	5.8	0.0	0.0	0.0
Upland Forest	2.0	0.0	0.0	0.0
Deciduous Wetland Scrub/Shrub	0.0	0.0	1,853.0	8.4
Upland Forest Mixed	0.0	0.0	85.2	0.4
Total	**21,980.00**	**100.00**	**21,947.00**	**100.00**

Figure 1. Model Layout

Bayou L'Eau Bleu Model Layout Subsegment 120303 RKM 15.5 to RKM 0.0

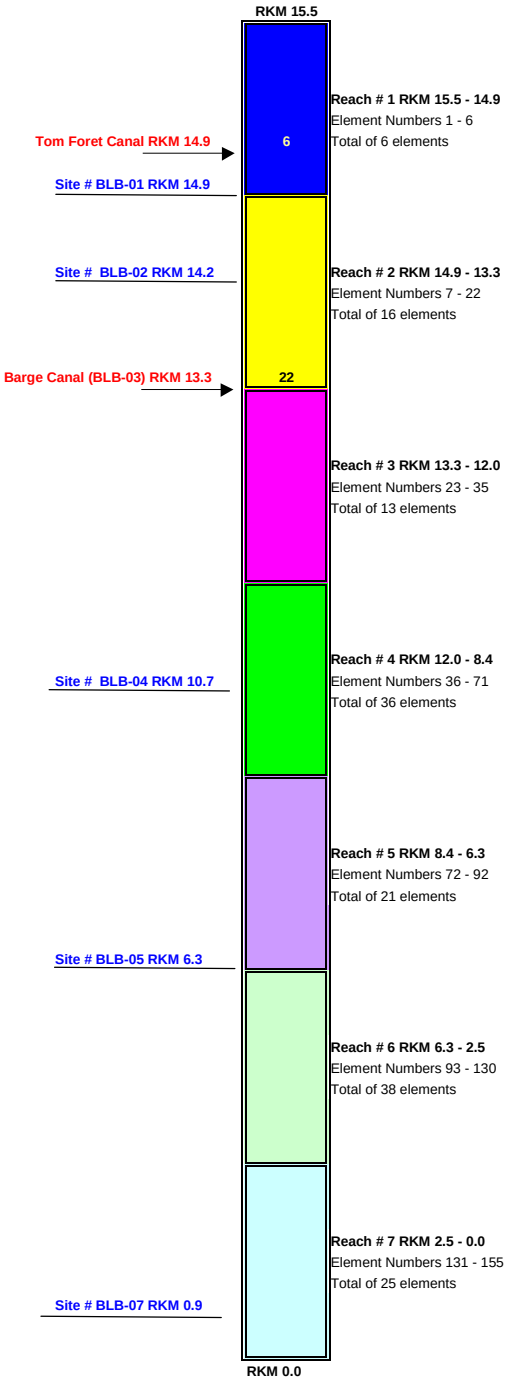
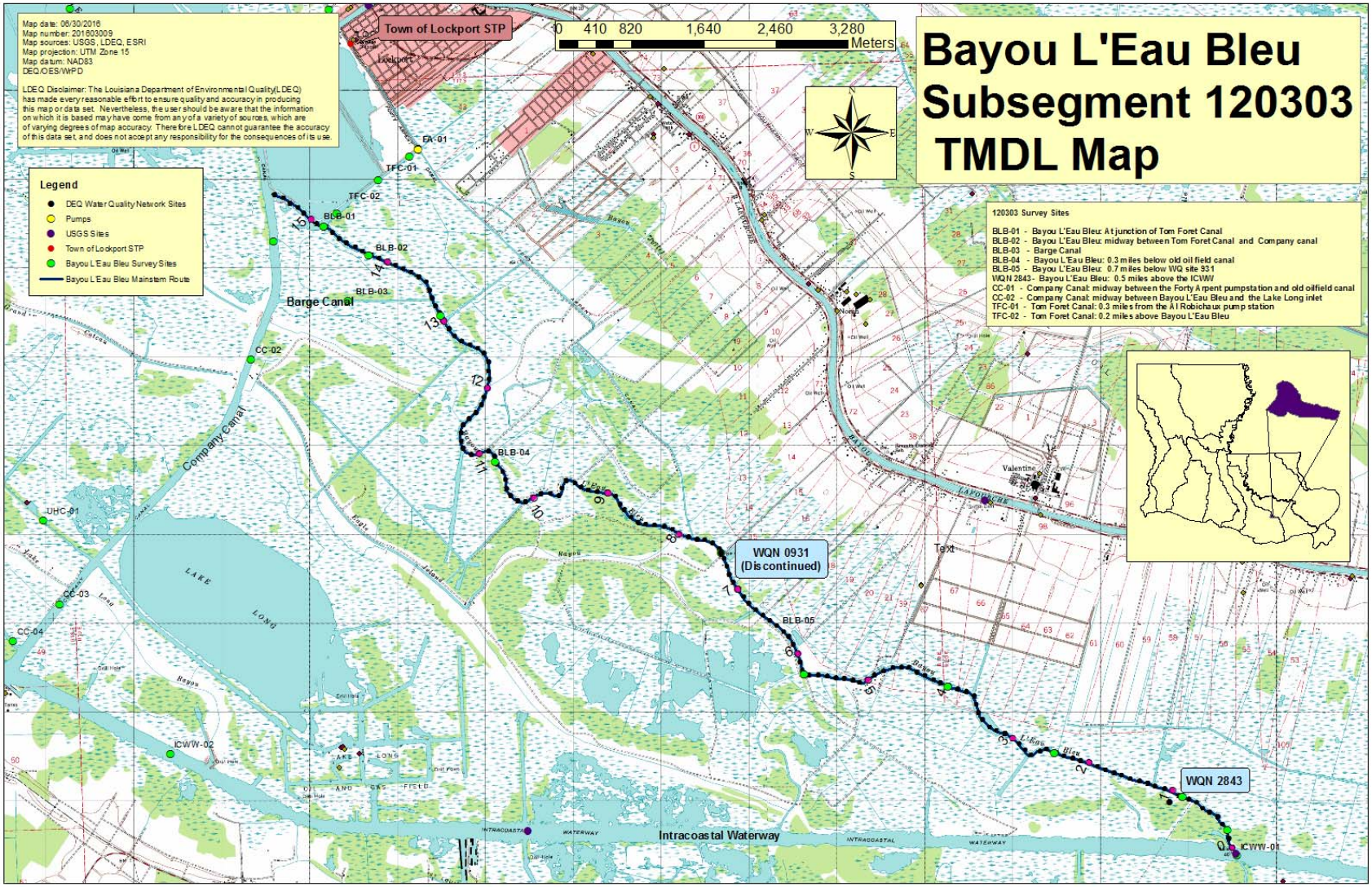


Figure 2. Map of Study Area



3.2 Water Quality Standards

The water quality criteria and designated uses for Subsegment 120303 are shown in Table 4. As noted in the table, Bayou L'Eau Bleu has a critical season (March through November) DO standard of 2.3 mg/L and a non-critical season (December through February) DO standard of 5.0 mg/L.

Table 4. Subsegment 120303 Water Quality Numerical Criteria

Water Quality Parameter	Value
DO, mg/L (March to November)	2.3 (Mar-Nov); 5.0 (Dec-Feb)
Chloride, mg/L	500
Sulfate, mg/L	150
pH, standard units	6.5 – 9.0
Bacteria, fecal coliform colonies/100mL	1*
Temperature, degrees Celsius	32
Total Dissolved Solids, mg/L	1000

*Note 1 – 200 colonies/100mL maximum log mean and no more than 25% of samples exceeding 400 colonies/100mL for the period March through November; 1,000 colonies/100mL maximum log mean and no more than 25% of samples exceeding 2,000 colonies/100mL for the period December through February.

3.3 Wastewater Discharges

There are two permitted dischargers located in Subsegment 120303: the Town of Lockport POTW and Valentine Prospect (Please refer to Table 5). The Town of Lockport has a discharge route of Forty Arpent Canal, thence to Tom Foret Canal, thence into Bayou L'Eau Bleu. Forty Arpent Canal is connected to Bayou L'Eau Bleu by a series of pump stations. Flow from Forty Arpent Canal typically reaches Bayou L'Eau Bleu whenever the pump stations are operating. Any residual loading from this discharger is accounted for as a nonpoint source loading through the process of calibration. The Town of Lockport falls within the Statewide Sanitary Effluent Limitations Policy (SSELP) that governs permit limitations. Current permit information and discharge monitoring reports were reviewed for this facility. The discharger was accounted for as a point source loading for the process of model calibration. This facility was not included in the TMDL model. An additional projection was run, including the two point sources. This projection indicated that discharges from the two facilities did not impact DO concentrations in the main stem of Bayou L'Eau Bleu therefore, it will remain at its current permit limits.

Valentine Prospect is a newly permitted discharger that came into existence after the original TMDL was finalized. It is an oil and gas drilling site, with a sanitary facility on-site, that has a sanitary discharge permit. At the time of this report, the facility has not been constructed. Valentine Prospect discharges into a network of local drainage canals, which eventually empty into Bayou L'Eau Bleu. The discharger was accounted for as point source loading through the process of model calibration. This facility was modeled, but it has a minimal impact on Bayou L'Eau Bleu; therefore, it will remain at its current permit limits.

Table 5. Discharger Inventory for Bayou L'Eau Bleu (Subsegment 120303)

FACILITY		AI NUMBER	CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		TMDL FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		MODELING COMMENTS
			GPD	BOD5, mg/L	NH_3-N, mg/L	GPD	BOD5, mg/L	NH_3-N, mg/L	
1	Town of Lockport	19435	900,000	10	N/A	900,000	10	N/A	Was not included in the TMDL model.
2	Valentine Prospect	194278	3,690	30	N/A	3,690	30	N/A	Was not included in the TMDL model.

3.4 Water Quality Conditions/Assessment

The 2014 IR showed that Subsegment 120303 was not supporting its designated use of FWP due to turbidity; it was fully supporting its designated uses of PCR and SCR. There were no impairments due to low DO. The draft 2016 IR indicates Subsegment 120303 is fully supporting all designated uses and meeting the current DO criteria. LDEQ notes that in 2004, WQN Site 0931 was replaced by Site 2843. Site 0931 was discontinued because of problems with site accessibility. The replacement monitoring site (2843) was moved further downstream, closer to the Intracoastal Waterway (ICWW). The relocation of the monitoring site resulted in improved DO values for the subsegment and delisting of the low DO impairment from the 2010 IR. The results of the LA-QUAL model agree with the impairment listing.

3.5 Prior Studies

LDEQ has one active water quality sampling station on Bayou L'Eau Bleu (Site 2843). The site has a period of record from January 2004 to September 2014. The previous monitoring site (Site 0931) has a period of record from January 2000 to November 2000. Site 0931 was discontinued in 2004 and replaced with the more representative WQN Site 2843. Thus, the data from WQN 2843 was used to establish the input for the model calibration and is presented in Appendix F.

Data collected during the Elgarian survey conducted from June 29 to July 6, 2004 included cross-section data, field in-situ data, continuous monitor data, a dye study, and lab water quality data. This data was used to develop the original TMDL for DO.

4. General TMDL Development Process

The development of a TMDL for DO generally occurs in three stages. Stage One encompasses data collection activities. These activities may include gathering such information as stream cross-sections, stream flow, stream water chemistry, stream temperature and DO and various locations on the stream, location of the stream centerline and the boundaries of the watershed which drains into the stream, and other physical and chemical factors which are associated with

the stream. Additional data gathering activities include gathering all available information on each facility which discharges pollutants in to the stream, gathering all available stream water quality chemistry and flow data from other agencies and groups, gathering population statistics for the watershed to assist in developing projections of future loadings to the water body, land use and crop rotation data where available, and any other information which may have some bearing on the quality of the waters within the watershed. During Stage One, any data available from reference or least impacted streams which can be used to gauge the relative health of the watershed is also collected.

Stage Two involves organizing all of this data into one or more useable forms from which the input data required by the model can be obtained or derived. Water quality samples, field measurements, and historical data must be analyzed and statistically evaluated in order to determine a set of conditions which have actually been measured in the watershed. The findings are then input to the model. Best professional judgment is used to determine initial estimates for parameters which were not or could not be measured in the field. These estimated variables are adjusted in sequential runs of the model until the model reproduces the field conditions which were measured. In other words, the model produces a value of DO, temperature, or other parameter which matches the measured value within an acceptable margin of error at the locations along the stream where the measurements were actually made. When this happens, the model is said to be calibrated to the actual stream conditions. At this point, the model should confirm that there is an impairment and give some indications of the causes of the impairment. If a second set of measurements is available for slightly different conditions, the calibrated model is run with these conditions to see of the calibration holds for both sets of data. When this happens, the model is said to be verified.

Stage Three covers the projection modeling which results in the TMDL. The critical conditions of flow and temperature are determined for the waterbody and the maximum pollutant discharge conditions from the point sources are determined. These conditions are then substituted into the model along with any related condition changes which are required to perform worst case scenario predictions. At this point, the loadings from the point and nonpoint sources (increased by an acceptable margin of safety) are run at various levels and distributions until the model output shows that DO criteria are achieved. It is critical that a balanced distribution of the point and nonpoint source loads be made in order to predict any success in future achievement of water quality standards. At the end of Stage Three, a TMDL is produced which shows the point source permit limits and the amount of reduction in man-made nonpoint source pollution which must be achieved to attain water quality standards. The man-made portion of the NPS pollution is estimated from the difference between the calibration loads and the loads observed on reference or least impacted streams.

5. Model Calibration Documentation

5.1 Program Description

The model used for this TMDL was LA-QUAL, a steady-state one-dimensional water quality model. LA-QUAL has the mechanisms for incorporating tidal fluctuations, dispersion, and algal impacts in the analysis and was particularly suitable for use in modeling Bayou L'Eau Bleu

watershed. Refer to the LA-QUAL for Windows User's Manual Model Version 9.34 for more information on the model.

Oxygen-demanding parameters modeled included Carbonaceous Biochemical Oxygen Demand (CBOD), Nitrogenous Biochemical Oxygen Demand (NBOD) and DO. Conservative parameters modeled included conductivity and chlorides.

5.2 Input Data Documentation

Data collected during the intensive survey conducted from June 29 to July 6, 2004 was used to establish the input for the model calibration. The data is presented in Appendix F. Flows were established using the dye study conducted on Bayou L'Eau Bleu during the survey. An average flow for the months of June and July 2004 obtained from DMRs for the Town of Lockport POTW were assumed to be the flow of Tom Foret Canal. The flow for the mainstem was assumed to be the flow obtained from the dye study minus the flow for Tom Foret Canal.

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

5.2.1 Model Schematics and Maps

A vector diagram of the modeled area is presented in Figure 1 and Appendix C1. The vector diagram shows the locations of survey stations, the reach/element design, and the locations of the tributaries. A map of the stream and subsegment showing river kilometers, survey stations, and other points of interest are also included in Figure 2 and Appendix H2.

5.2.2 Model Options, Data Type 2

Six constituents were modeled during the calibration process. These were DO, CBOD components 1 and 2, NBOD, chloride, and conductivity. The continuous monitors did show small diurnal swings indicative of algal activity. The algae cycle was not modeled; however, the measured chlorophyll α values were included in the initial conditions. This allowed the model to simulate the oxygen production associated with algae without modeling the entire algal cycle.

5.2.3 Program Constants, Data Type 3

To take into consideration all modes of transport, dispersion equation 3, ($D_L = aH^bQ^cV_M^d$) in LA-QUAL was used.

The tide height and period of tidal rise were calculated using BLB-07 (WQN 2843) continuous monitor.

A minimum K_L value of 0.7 m/day was used. This value is a conversion from 2.3 ft/day which is a Louisiana standard minimum. According to the Louisiana Technical Procedure (LTP), The K_2 maximum was set to 25 1/day at 20° C.

The hydraulic calculation method was set to option 2 or "widths and depths." This was done because the low slopes in these waterbodies cause a substantial amount of water to be present in some reaches during critical flow. Using a modified Leopold relationship allows the model to predict a more accurate depth and width during low flow.

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

The wind velocity was calculated using the Houma Weather Station.

The algae oxygen production was set to zero in order to model to a wide variation in DO.

The ocean exchange rate was set to the default value of one due to tidal impacts. The effective BOD1 and BOD2 were both set to zero and are automatically calculated by the model.

5.2.4 Temperature Correction of Kinetics, Data Type 4

The temperature values computed are used to correct the rate coefficients in the source/sink terms for the other water quality variables. These coefficients are input at 20°C and are then corrected to temperature using the following equation:

$$X_T = X_{20} * \text{Theta}^{(T-20)}$$

Where:

X_T = the value of the coefficient at the local temperature T in degrees Celsius
X_{20} = the value of the coefficient at the standard temperature at 20°C
Theta = an empirical constant for each reaction coefficient

In the absence of specified values for data type 4, the model uses default values. A complete listing of these values can be found in the LA-QUAL for Windows User's Manual (LDEQ, 2015). For this model all values used were LA-QUAL default values.

5.2.5 Reach Identification Data, Data Type 8

A diagram of the modeled area is presented in Appendix C1. The vector diagram shows the reach/element design and the location of the Barge Canal and Tom Foret Canal. The modeled area is characterized by seven sample sites. The model begins at Company Canal and extends to the ICWW. This calibrated model includes seven reaches, 155 elements, one headwater, and two tributaries. A digitized map of the stream showing river kilometers and the 2004 intensive survey sampling sites are included in Figure 2 and Appendix H2.

5.2.6 Advective Hydraulic Coefficients, Data Type 9

The Leopold equations are used to scale the velocity (U), width (W), and depth (H) of a free flowing stream from a lower value of flow to a higher value or from a higher value of flow to a lower value. Note that the exponents add to one and the coefficients multiply to 1. This is known as the rule of ones. This method is not appropriate for streams which are not dependent entirely on flow such as waterbodies where flow approaches zero, but contain some depth.

$U = aQ^b \qquad H = cQ^d \qquad W = eQ^f$

$b + d + f = 1 \qquad (a)(c)(e) = 1$

The Leopold equations presume that the water surface width and average depth of a stream are zero at zero flow. Most Louisiana streams, such as Bayou L'Eau Bleu, retain a significant width and depth at zero flow. The equations have therefore been modified to allow for a zero flow width and depth. The rule of ones does not apply to the modified equations. The modified Leopold equations are:

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

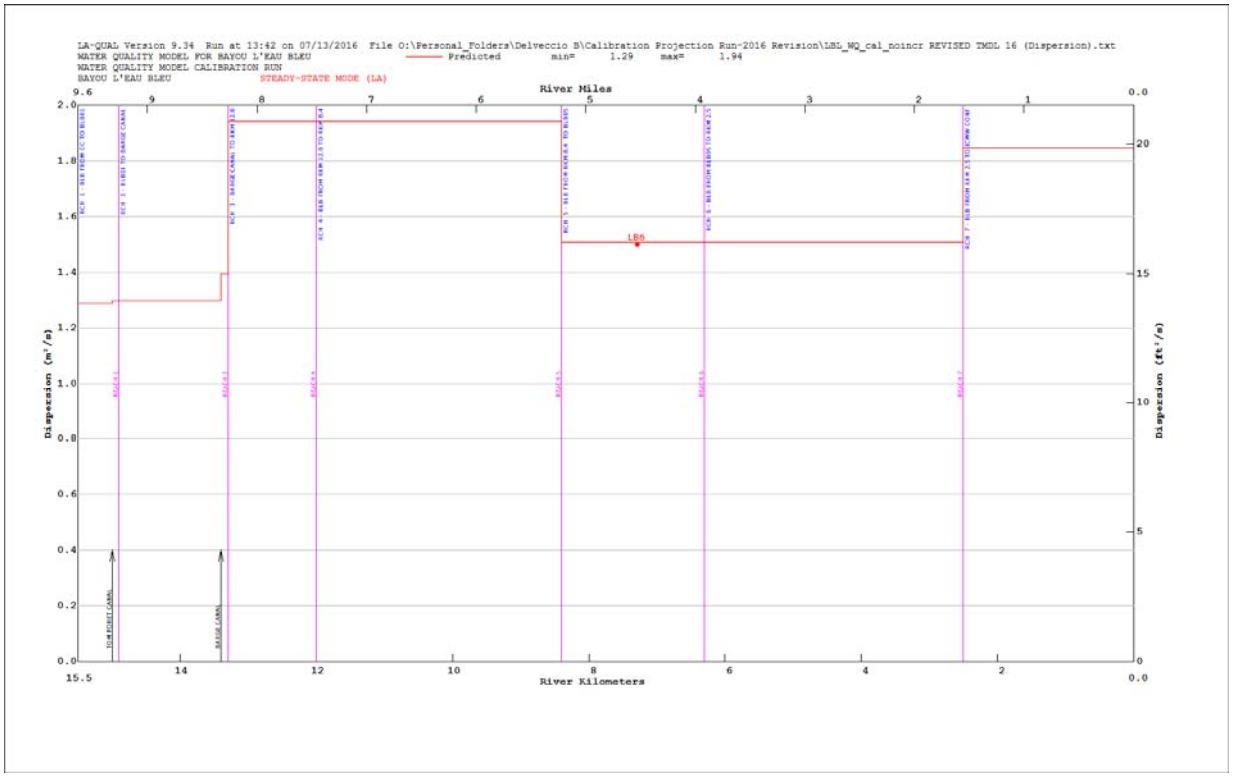
Bayou L'Eau Bleu is a tidally influenced stream and therefore widths and depths were assumed to be independent of flow and relatively constant. Consequently, the modified Leopold coefficients and exponents were not calculated for this model.

5.2.7 Dispersive Hydraulic Coefficients, Data Type 10

The dispersion was estimated based on the dye study. The dye study was conducted using the moving site method. There were two dye runs conducted during this study. Based on the data retrieved the final dye run was determined to be most representative of the stream. This was because the final dye run had the longest run time. The longer time frame gave the dye a longer time to become more uniformly dispersed in the river. The Kd value was determined to be 1.5.

To take into consideration all modes of transport, equation 3, ($D_L = aH^bQ^cV_M{}^d$) in LA-QUAL was used. Using b=5/6, c=0, and d=1 will take into account all modes of transport in the manner of the Tracor and QUAL2E equations. The value for coefficient "a" was calibrated to within the boundaries of the final dye run by setting all other parameters to the previously mentioned values. All documentation can be found in Appendix F6.

Figure 3. Dispersion Calibration



5.2.8 Initial Conditions, Data Type 11

The initial conditions are used to reduce the number of iterations required by the model. The values required for this model were temperature and DO by reach. The input values came from the survey station(s) located closest to the reach.

When the continuous monitoring DO data for at least one diurnal cycle is available, it is standard practice to calibrate to the mean DO (Please see Table 6). In this case, a diurnal variation of greater than 2mg/L was encountered. The standard DEQ practice for this is as follows:

1. Calibrate without simulating algal production as follows:

Range of DO cycle	Calibrate
0 – 2 mg/l	Mean DO for one or more full cycles
2 – 9 mg/l	One mg/l over minimum DO

Normally when the chlorophyll α values are high and there is a DO swing in the continuous monitors of more than 2 mg/l, modeling to (DO min + 1) is the norm. For this survey, only two continuous monitors were working for Bayou L'Eau Bleu mainstem. The (DO min + 1) values for these monitors were very close to the *in situ* readings taken at the sample times, BLB-05 (WQN 2943) and BLB-07 (WQN 2843). Although data was collected for BLB-01 (WQN 2936), the monitor failed at some point during the sample period. Therefore, to be consistent with the sites that did not have continuous monitors, the *in situ* readings taken at the sample times will be used for all sites. The input data and sources are shown in Appendix B2.

Chlorophyll α values were also used since the mild effects of algae on the DO concentrations were also simulated with this model. The initial conditions are only a starting point for the model, therefore, all values were set to the measured values. The input data and sources are shown in Appendix B2.

Table 6. Bayou L'Eau Bleu Range of DO Cycle

Bayou L'Eau Bleu Continuous Monitoring Diurnal Range			
Site	DO, mg/l Minimum Values	DO mg/L Maximum Values	Diurnal Swing
BLB-05	0.44	3.69	3.25
BLB-07	1.19	5.01	3.82

5.2.9 Reaeration Rates, Data Type 12

The applicability of the various reaeration equations was examined. The Texas Equation was the most applicable to Bayou L'Eau Bleu for all reaches.

$$K_2 = \frac{1.923V^{0.278}}{D^{0.984}}$$

5.2.10 Sediment Oxygen Demand, Data Type 12

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

5.2.11 Carbonaceous BOD Decay and Settling Rates, Data Type 12

The decay rates used were based on the bottle rates from the survey. Review of the measured CBOD daily values revealed two distinct CBOD components, which had varying decay rates and lag times. The first component started its decay almost immediately with decay rates ranging from 0.10 to 0.13 per day. The second component had substantial lag times ranging from 5.25 to 24.54 days and decay rates from 0.033 to 0.039 per day. The CBOD curves presented in Appendix F5 are the sum of the two first order equations, which were derived using the Microsoft Excel Solver and were based on the measured daily CBOD values. These two components were modeled separately as CBOD1 and CBOD2 in the LA-QUAL model. The decay rates used were the average value across all mainstem reaches. The settling rates were achieved through calibration. A summary of all decay and settling rates is presented in Appendix F5.

5.2.12 Nitrogenous BOD Decay and Settling Rates, Data Type 15

These rates are labeled NBOD Decay and Settling in the model. The decay rates used were based on the bottle rates from the survey. NBOD decay rates were fairly consistent with main stem rates ranging from 0.09 to 0.171. The decay rates used were the average value across all mainstem reaches. The settling rates were achieved through calibration. A summary of all decay and settling rates is presented in Appendix F5.

5.2.13 Nonpoint Sources, Data Type 19

Nonpoint source loads which are not associated with a flow are input into this part of the model. These can be most easily understood as resuspended load from the bottom sediments and are modeled as SOD, CBOD1, CBOD2, and NBOD loads. These values are achieved through calibration. The loads determined through calibration were reasonable for this type of waterbody and stream geometry.

5.2.14 Headwaters, Data Types 20, 21, and 22

The headwater flow was determined by using the values calculated from the dye study. The result was determined to be 93% of the flow calculated from the dye study minus the flow calculated for Tom Foret Canal (Please see Table 7). The width, depth and lengths from Bayou L'Eau Bleu and Barge Canal were used to calculate a volume of water. The percentages determined from this were 93% Bayou L'Eau Bleu and 7% Barge Canal. The conductivity graph indicated that this assumption is fairly accurate; data and sources are presented in Appendix B2. The headwater exchange ratio was set to "1" because Bayou L'Eau Bleu is in between two tidally influenced waterbodies.

Table 7. Bayou L'Eau Bleu Flow Calculations

Bayou L'Eau Bleu % Flow Calculations						
Flow for Lockport - Tom Foret Canal						
mgd	cms					
0.479	0.0201					
L'Eau Bleu						
width (m)	depth (m)	length (m)		Volume (m^3)		% Load
47.1	1.25	15.5		912.56		93
Barge Canal						
width (m)	depth (m)	length (m)		Volume (m3)		% Load
41.8	0.91	1.78		67.71		7

5.2.15 Wasteloads, Data Types 23, 24, and 25

There were two tributaries assumed to be flowing at the time of the survey: Tom Foret Canal and Barge Canal. Tom Foret Canal was assumed to be the average flow for the Town of Lockport

for June and July 2004. There is a pump station located on Tom Foret Canal, but there were many unsuccessful attempts in obtaining the data; therefore, no extra flow could be added to account for their input. Barge Canal was assumed to be 7% of the flow calculated from the dye study, minus the flow of Tom Foret Canal.

5.2.16 Boundary Conditions, Data Type 27

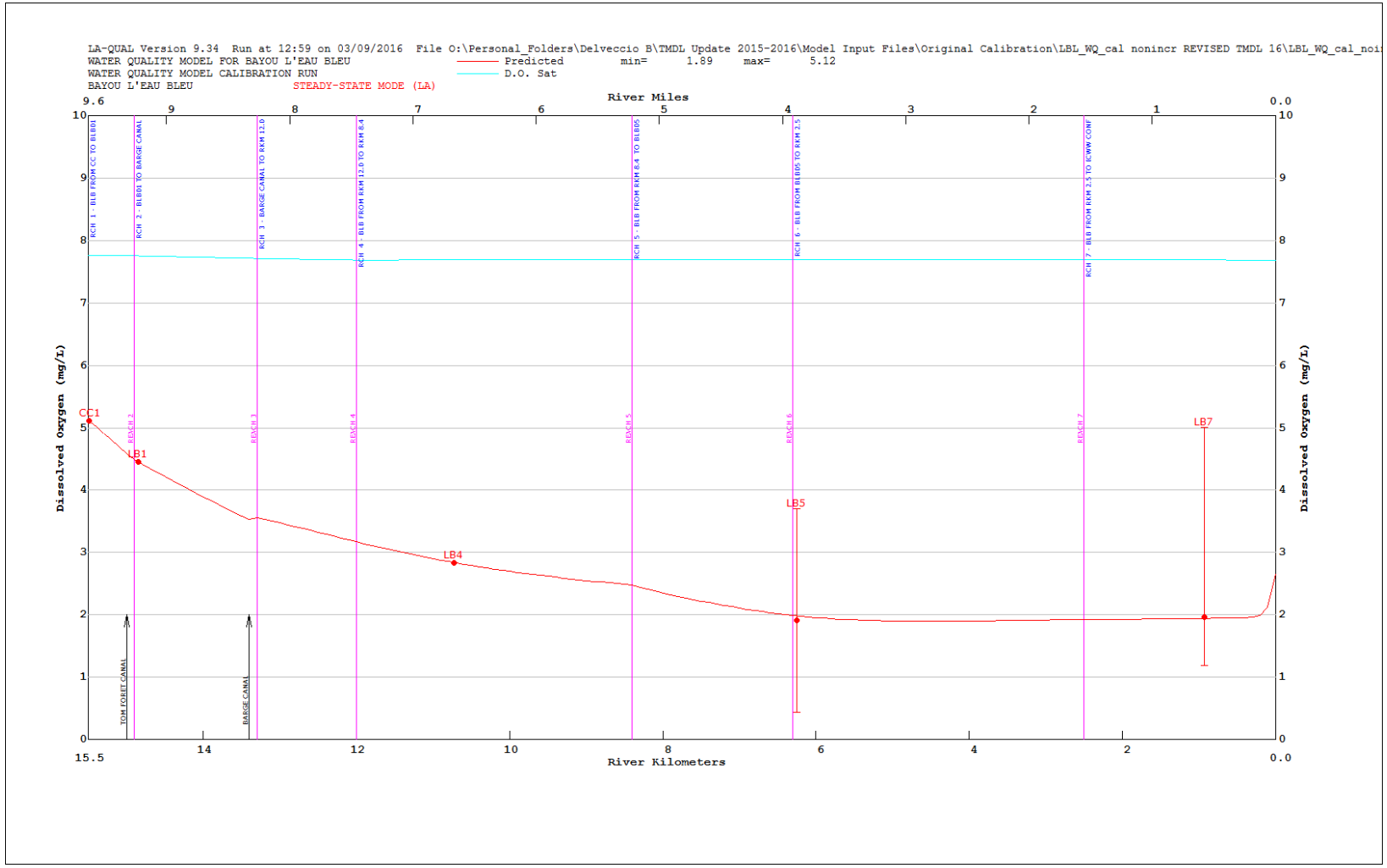
The lower boundary conditions were assumed to be equivalent to the measurements taken at survey station ICWW-01 except for chlorophyll α. No chlorophyll α measurements were taken at this site, so the measurement used was BLB-05 (WQN 2943) which is the closest site to the lower boundary.

5.3 Model Discussion and Results

The calibration model input and output is presented in Appendix B. The overlay plotting option was used to determine if calibration had been achieved. A plot of the DO concentration versus river kilometer is presented in Figure 4. The calibration points for CBOD1, CBOD2, and NBOD were the measured values from the water quality samples. The calibration points for conductivity were the *in situ* readings. The calibration points for the chlorides and chlorophyll α were the measured values from the water quality samples. An adequate reference stream to determine background conditions for the model was not available.

A good calibration was achieved for DO, UCBOD1, UCBOD2, and NBOD on the main stem. The calibration model shows that during the 2004 intensive survey period, the DO standard of 5 mg/L was not being met in Subsegment 120303 for any of its reaches. The calibration model's minimum DO on the main stem was 1.89mg/L. Low DO levels can mainly be attributed to the naturally dystrophic conditions present and stormwater pumping. Conductivity seemed to give the best conservative balance.

Figure 4. Calibration Model Dissolved Oxygen versus River Kilometer



6. Water Quality Projections

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

6.1 Critical Conditions, Seasonality and Margin of Safety

The Clean Water Act requires the consideration of seasonal variation of conditions affecting the constituent of concern, and the inclusion of a margin of safety (MOS) in the development of a TMDL. For the Bayou L'Eau Bleu (Subsegment 120303) TMDL an analysis of LDEQ ambient data has been employed to determine critical seasonal conditions and an appropriate MOS.

Critical conditions for DO were determined for Bayou L'Eau Bleu using water quality data from WQN Site 2843. The 90th percentile temperature for each season and the corresponding 90% of DO saturation were determined. Ambient temperature data, critical temperature and DO saturation determinations are shown in Appendix G1.

Graphical and regression analysis techniques have been used by LDEQ historically to evaluate temperature and DO data from ambient sites and run-off water budget determinations from the Louisiana Office of Climatology. Since nonpoint loading is conveyed by run-off, this was a reasonable correlation to use. Temperature is strongly inversely proportional to DO and moderately inversely proportional to run-off; DO and run-off are also moderately directly proportional. The analysis concluded that the critical conditions for stream DO concentrations were those of negligible nonpoint run-off and low stream flow combined with high stream temperature.

When rainfall nonpoint loading from run-off and stream flow are high, instream turbulence also increases due to the high flow rate, and stream's water temperature decreases from run-off. In addition, run-off coefficients are higher in cooler weather due to reduced evaporation and evapotranspiration, so that the high flow periods of the year tend to be the cooler periods. Reaeration rates and DO saturation are, of course, much higher when water temperatures are cooler, but BOD decay rates are much lower. For these reasons, periods of high loading are periods of higher reaeration and DO but not necessarily periods of high BOD decay.

This phenomenon is interpreted in TMDL modeling by assuming that nonpoint loading associated with flows into the stream are responsible for the benthic blanket which accumulates on the stream bottom and that the accumulated benthic blanket of the stream, expressed as SOD and/or resuspended BOD in the calibration model, has reached steady state or normal conditions over the long term and that short term additions to the blanket are offset by short term losses. This accumulated loading has its greatest impact on the stream during periods of higher temperature and lower flow. The man-made portion of the nonpoint source loading is the difference between the calibration load and the reference stream load, where the calibration load is higher. The only mechanism for changing this normal benthic blanket condition is to

implement best management practices (BMPs) and reduce the amount of nonpoint source loading entering the stream and feeding the benthic blanket.

Critical season conditions were simulated in the Bayou L'Eau Bleu projection models by using the same headwater flow and flow for Barge Canal from the calibration, and the 90th percentile temperature. For the headwater DO, the 90% of DO saturation from Site 2843 was used. The flow for the two tributaries was the LTP default value.

In reality, the highest temperatures occur in July and August, the lowest stream flows occur in October and November, and the maximum point source discharge occurs following a significant rainfall (i.e., high-flow conditions). The summer projection model is established as if all these conditions happened at the same time. The winter projection model accounts for the seasonal differences in flows and BMP efficiencies. Other conservative assumptions regarding rates and loadings are also made during the modeling process. In addition to the conservative measures, LDEQ allocated 10% to future growth 10% to margin of safety.

6.2 Input Data Documentation

The LTP states that the flow for summer conditions is 1/3 of the average tidal flow. Due to tidal impacts there are times when the flow actually reverses in Company Canal due to the flow patterns of the Intracoastal Waterway (ICWW).

Critical conditions take into consideration DO, temperature and flow as data inputs. Pollutant loading is adjusted in the projection models to meet the DO criteria.

The calibration values were retained for the remaining parameters and used as input values in the summer and winter projections. The model adjusts the input values for SOD, UCBOD decay, and UNBOD decay based upon the input temperature. The model projects the width and depth values based upon the streamflow.

6.2.1 Model Options, Data Type 2

Six constituents were modeled during the projection process. These constituents were DO, the two components of CBOD (fast and slow), NBOD, chloride, and conductivity.

6.2.2 Program Constants, Data Type 3

The program constants were retained from the calibration model.

6.2.3 Temperature Correction of Kinetics, Data Type 4

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

6.2.4 Reach Identification Data, Data Type 8

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

6.2.5 Advective Hydraulic Coefficients, Data Type 9

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

6.2.6 Dispersive Hydraulic Coefficients, Data Type 10

The dispersive hydraulic coefficients determined for the calibration were retained in the projection model

6.2.7 Initial Conditions, Data Type 11

The initial conditions were set to the 90th percentile critical season temperature in accordance with the LTP. This data was obtained from LDEQ's WQN Site 2843. For summer, the temperature was set to 30.8 ^{o}C. For winter, the temperature was set to 16.2 ^{o}C. The DO values for the initial conditions were set to the revised criteria with the exception of the headwater DO value. The headwater DO was set to the calibration headwater DO value. The headwater DO for both the summer and winter projections was set to 5.12 mg/L.

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

The reaeration rate equations, CBOD1 and CBOD2 decay and settling rates, NBOD decay and settling rates, and the fractions converting settled CBOD and settled NBOD to SOD were retained from the calibration.

6.2.9 Sediment Oxygen Demand, Nonpoint Sources, Headwaters, Wasteloads, Data Type 12, 19, 20, 21, 22, 24, 25, and 26

The NPS loading values were calculated for each projection scenario using a load equivalent spreadsheet. An analysis was made of the calibration NPS and SOD loads in terms of loading in units of gm-O_2/m^2/day. The same spreadsheet also calculated load reductions for the headwaters and wasteloads. The values and sources of the input data and the load analyses are presented in Appendix D for each of the projection runs.

LDEQ has collected and measured the CBOD and NBOD oxygen demand loading components for a number of years. These loads have been found in all streams including the least impacted reference streams. It is LDEQ's opinion that much of this loading is attributable to run-off loads which are flushed into the stream during run-off events, and subsequently settle to the bottom in the slow moving streams. These benthic loads decay and breakdown during the year, becoming easily resuspended into the water column during the low flow/high temperature season. This season has historically been identified as the critical DO season.

LDEQ simulates part of the nonpoint source oxygen demand loading as resuspended benthic load and SOD. The calibrated nonpoint loads, UCBOD, UNBOD and SOD, are summed to

produce the total calibrated benthic load. The total calibrated benthic load is then reduced by the total background benthic load (determined from LDEQ's reference stream research) based on an appropriate reference stream, if available, to determine the total manmade benthic loading. The input data and sources are shown in Appendix B2. The manmade portion is then reduced incrementally on a percentage basis to determine the necessary percentage reduction of manmade loading required to meet the water body's DO criteria. These reductions are applied uniformly to all reaches sharing similar hydrology and land uses.

Following the same protocol as the point source discharges, the total reduced manmade benthic load is adjusted for the margin of safety by dividing the value by one minus the margin of safety. This adjusted load is added back to the total background benthic value to obtain the total projection model benthic load. This total projection benthic load is then broken out into its components of SOD, resuspended CBOD and resuspended NBOD by multiplying the total projection benthic load by the ratio of each calibrated component to the total calibrated benthic load.

LDEQ has found variations in the breakdown of the individual CBOD and NBOD components. While determination of the total BOD is reliable, the carbonaceous and nitrogenous component allocation is subject to the type of test method. Prior to 2001, LDEQ used a method which suppressed the nitrogenous component to obtain the carbonaceous component value, which was then subtracted from the total measured BOD to determine the nitrogenous value. The suppressant in this method was only reliable for twenty days thus leading to the assumption that the majority of the carbonaceous loading was depleted within that period of time. The test results supported this assumption. A new method was found in Standard Methods for testing long term BODs and was implemented in 2000. This method was necessary because the nitrogen suppressant started failing around day seven and the manufacturer of the suppressant will only guarantee its potency for a five day period. It is LDEQ's opinion that a five day test would not adequately depict the water quality of streams.

This current method used is a sixty-day test which measures the incremental total BOD of the sample while at the same time measuring the increase in nitrite/nitrate in the sample. This increase in nitrite/nitrate allows LDEQ to calculate the incremental nitrogenous portion by multiplying the increase by 4.57 to determine the NBOD daily readings. These NBOD daily readings are then subtracted from the daily reading for total BOD to determine the CBOD daily values. A curve fit algorithm is then applied to the daily component readings to obtain the estimated ultimate values of each component as well as the decay rate and lag times of the first order equations.

LDEQ implemented the sixty-day test method during the 2000 survey season. The results obtained using the new method showed that a portion of the CBOD first order equation does begin to level off prior to the twentieth day, however a secondary CBOD component begins to use DO sometime between day ten and day twenty-five. This secondary CBOD component was not being assessed as CBOD using the previous method but was being included in the NBOD load. Thus the CBOD and NBOD component loading used in the reference stream studies is not consistent with the results using the sixty-day method and the individual values should not be used to determine background values for samples processed using the new test methods.

However, the sum of CBOD and NBOD should be about the same for both new and old test methods. For this reason LDEQ decided to use the sum of reference stream benthic loads as background values. Again, background values could not be quantified for Bayou L'Eau Bleu due to the lack of a representative reference modeling stream.

The headwater, incremental, resuspended total nonpoint CBOD1, CBOD2, and NBOD loading was reduced by 60% for all reaches in the summer critical projection scenario to meet the proposed summer water quality DO criterion of 2.3 mg/L, while providing an explicit MOS. A 50% reduction was required to meet the winter season DO criterion of 5.0 mg/L.

The reductions were determined using the calibrated values for nonpoint CBOD1, CBOD2, and NBOD. These values were summed by reach, as justified above and adjusted for the margin of safety. Each reach's total benthic nonpoint load was then reduced to meet the DO criteria in each reach. Using the ratios determined in calibration, this reduced total nonpoint load was then broken into its components of CBOD1, CBOD2, NBOD, and SOD. The percentage reduction within the mainstem was calculated based on the comparison of the reduced total nonpoint benthic load to the calibration total nonpoint benthic load. These calculations are shown in Appendix E. The value and sources of CBOD1, CBOD2, and NBOD for each projection run are presented in Appendix F5.

The headwater flow was set to 1/3 the average tidal flow, as per the LTP. There was no way to project a flow with absolute certainty due to the flow variations from Company Canal. Due to tidal impacts, there are times when the flow from Company Canal actually reverses based on the conditions present on the ICWW.

The flow for Tom Foret Canal was assumed to be the average flow for the Town of Lockport POTW, 0.0211 cfs and the Barge Canal flow of 0.08070 cfs was set to 1/3 the average flow.

6.2.10 Boundary Conditions, Data Type 27

The lower boundary conditions were set at the 90th percentile critical season temperature, the DO criteria, and the measured stream UCBOD and UNBOD concentrations (from site ICWW-01) for all projections and scenarios.

6.3 Model Discussion and Results

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

6.3.1 Critical Season Projection (Summer)

Summer critical season projections were run for the current DO standard of 2.3 mg/L (March through November). In order to meet this standard, a 60% reduction of total nonpoint sources is necessary. With these percentage reductions in the benthic oxygen loads, Bayou L'Eau Bleu meets the DO criterion; the minimum projected DO on the main stem is 2.67 mg/L. A graph of the DO concentration versus river kilometer for the summer projection is presented in Figure 5.

Potential sources of biological oxygen demand (BOD) and nutrient loadings may be the pumped diversion of the Mississippi River into Bayou Lafourche at Donaldsonville, Louisiana, some of which is diverted into Company Canal thence into Bayou L'Eau Bleu. High levels of chlorophyll α measured in Bayou L'Eau Bleu during the survey may have been influenced by nutrients from the Mississippi River, and contribute to some of the sediment oxygen demand (SOD). Point and nonpoint source controls in the Bayou L'Eau Bleu watershed will not address this source.

6.3.2 Non-Critical Season Projection (Winter)

The results of the model show that the water quality criterion for DO of Bayou L'Eau Bleu of 5.0 mg/L can be maintained during the winter non-critical season; the minimum projected DO is 5.12 mg/L. To achieve the criterion, the model assumed a 50% reduction in the total nonpoint loading. A graph of the DO concentration versus river kilometer for the winter projection is presented in Figure 6. Again, it is unlikely that point and nonpoint source controls in this subsegment will be beneficial due to the major source being the Mississippi River.

6.4 Calculated TMDL, WLAs, LAs, MOS, and Future Growth

6.4.1 Outline of TMDL Calculations

An outline of the TMDL calculations is provided in Appendix A1.

6.4.2 Future Growth and Margin of Safety

LDEQ allocated 10% to future growth and 10% to margin of safety for Subsegment 120303.

6.4.3 Bayou L'Eau Bleu, Subsegment 120303 TMDL

The TMDLs for the biochemical oxygen demanding constituents (CBOD1, CBOD2, NBOD, and SOD), have been calculated for the critical and non-critical seasons. The Winter and Summer TMDL Summaries are presented in Appendix A.

Figure 5. Summer Projection at 60% Removal of Man-Made NPS Loads

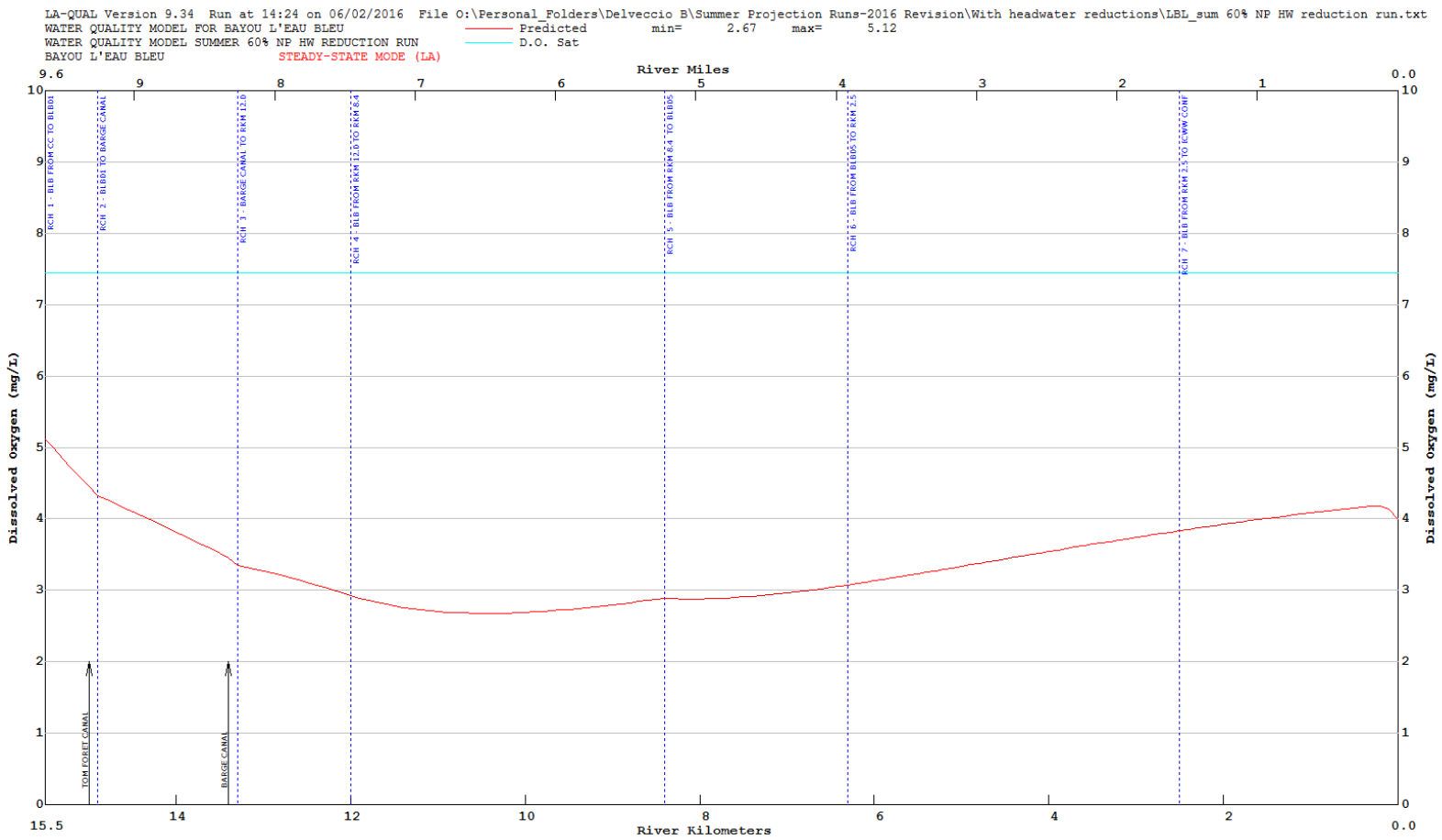
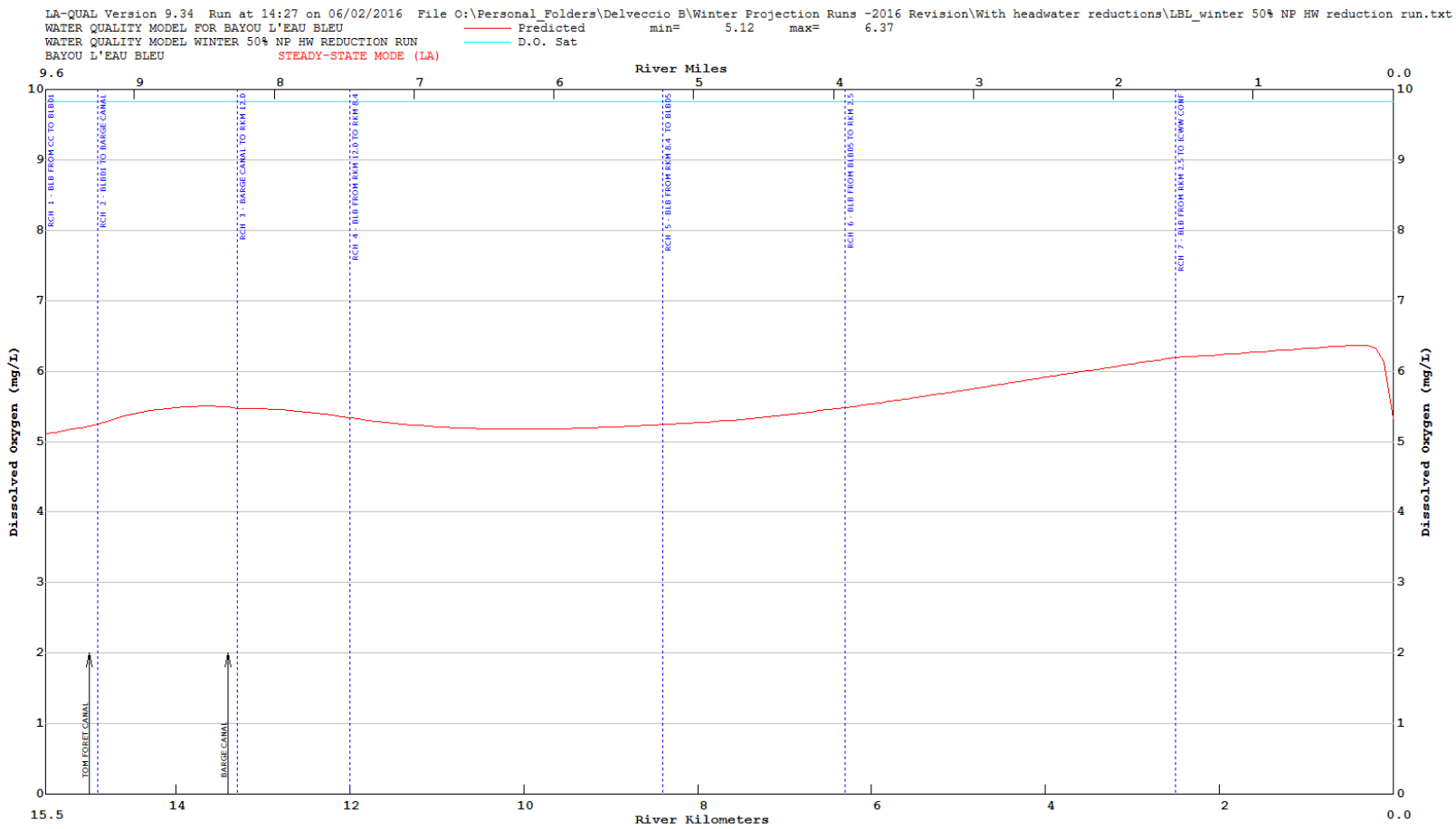


Figure 6. Winter Projection at 50% Removal of Man-Made NPS Loads



7. Sensitivity Analysis

All modeling studies necessarily involve uncertainty and some degree of approximation. It is therefore of value to consider the sensitivity of the model output to changes in model coefficients, and in the hypothesized relationships among the parameters of the model. The LA-QUAL model allows multiple parameters to be varied with a single run. The model adjusts each parameter up or down by the percentage given in the input set. The rest of the parameters listed in the sensitivity section are held at their original projection value. Thus the sensitivity of each parameter is reviewed separately. A sensitivity analysis was performed on the calibration. The sensitivity of the model's minimum DO projections to these parameters is presented in Appendix I2. Parameters were varied by +/- 30%, except temperature, which was adjusted +/- 2 degrees Centigrade.

Values reported in Appendix I2 are percentage variation of minimum DO in the main stem Bayou L'Eau Bleu. As shown in Table 9, benthal demand, stream reaeration, and stream depth are the parameters to which DO is most sensitive. The model is moderately sensitive to stream baseflow, initial temperature, CBOD aerobic decay rate, headwater flow, and headwater CBOD. The model is slightly sensitive to insensitive to the remaining parameters.

8. Conclusions

This TMDL establishes load limitations for oxygen-demanding substances and goals for reduction of those pollutants. The implementation of this TMDL through wastewater discharge permits and use of BMPs 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.

Potential sources of biological oxygen demand (BOD) and nutrient loadings may be the pumped diversion of the Mississippi River into Bayou Lafourche at Donaldsonville, Louisiana, some of which is diverted into Company Canal thence into Bayou L'Eau Bleu. High levels of chlorophyll α measured in Bayou L'Eau Bleu during the survey may have been influenced by nutrients from the Mississippi River, and contribute to some of the sediment oxygen demand (SOD). Point and nonpoint source controls in the Bayou L'Eau Bleu watershed will not address this source.

A calibrated water quality model for the watershed was developed and projections were modeled to quantify the nonpoint source load reductions which would be necessary in order for Subsegment 120303 to attain its established water quality standards and criteria. A 2.3 mg/L DO standard during the critical season (summer) would require a 60% reduction in man-made loading, and a 5.0 mg/L DO standard during the non-critical season (winter) would require a 50% reduction in man-made loading.

The existing point sources, the Town of Lockport and Valentine Prospect, have no impact on the main stem of Bayou L'Eau Bleu and require no changes to their permitted discharge. LDEQ has developed this TMDL to be consistent with the state antidegradation policy (LAC 33:IX.1109.A). LDEQ will work with other agencies such as local Soil Conservation Districts to implement agricultural BMPs in the watershed through the Clean Water Act (CWA) Section 319 (nonpoint source) programs. LDEQ will also continue to monitor the waters to determine whether standards are being attained.

In accordance with Section 106 of the Federal Clean Water Act (CWA) and under the authority of the Louisiana Environmental Quality Act, the LDEQ has established a comprehensive program for

monitoring the quality of the state's surface waters. The LDEQ Surveillance Division collects surface water samples at various locations, utilizing appropriate sampling methods and procedures for ensuring the quality of the data collected. The objectives of the surface water monitoring program are to determine the quality of the state's surface waters, to develop a long-term database for water quality trend analysis, and to monitor the effectiveness of pollution controls. The data obtained through the surface water monitoring program is used to develop the state's biennial 305(b) report (*Water Quality Inventory*) and the 303(d) list of impaired waters. This information is also utilized in establishing priorities for the LDEQ nonpoint source program.

The LDEQ is continuing to implement a watershed approach to surface water quality monitoring. In 2004, a four year sampling cycle replaced the previous five year cycle. Approximately one quarter of the states watersheds will be sampled each year so that all of the state's watersheds will be sampled within the four year cycle. This will allow LDEQ to determine whether there has been any improvement in water quality following implementation of the TMDLs. As the monitoring results are evaluated at the end of each year, waterbodies may be added to or removed from the 303(d) list.

Table 8. Bayou L'Eau Bleu Sensitivity Model Summary Table

SENSITIVITY ANALYSIS SUMMARY

BAYOU L'EAU BLEU MODEL CALIBRATION

Plot 1 Base Model Minimum DO = 1.89

Parameter	% Parameter Change	Min D.O.	% D.O. Change	% Parameter Change	Min D.O.	% D.O. Change
Stream Reaeration	-30	1.43	-24.3	30	2.88	52.1
Benthal Demand	-30	2.46	30.0	30	1.68	-11.2
Stream Depth	-30	2.50	31.9	30	1.70	-10.2
CBOD1 Aerobic Decay Rate	-30	2.31	22.2	30	1.73	-8.6
Initial Temperature (^oC)	-2	2.31	22.0	2	1.72	-9.3
Headwater CBOD1	-30	2.10	10.9	30	1.78	-6.1
Stream Baseflow	-30	1.71	-9.7	30	2.15	13.4
Headwater Flow	-30	1.71	-9.7	30	2.15	13.4
CBOD1 Settling Rate	-30	1.82	-3.8	30	1.98	4.4
Headwater DO	-30	1.84	-2.9	30	1.94	2.7
Stream Velocity	-30	1.84	-2.9	30	1.92	1.3
NBOD Decay Rate	-30	1.95	2.8	30	1.85	-2.1
Headwater NBOD	-30	1.92	1.7	30	1.86	-1.5
CBOD2 Aerobic Decay Rate	-30	1.91	1.1	30	1.87	-1.0
Wasteload Flow	-30	1.88	-0.7	30	1.91	0.7
Headwater CBOD2	-30	1.90	0.6	30	1.88	-0.6
Wasteload CBOD1	-30	1.90	0.6	30	1.88	-0.6
NBOD Settling Rate	-30	1.88	-0.5	30	1.90	0.5
Wasteload DO	-30	1.89	-0.3	30	1.90	0.3
Wasteload NBOD	-30	1.90	0.2	30	1.89	-0.2
Initial Chlorophyll a	-30	1.89	0.0	30	1.89	0.0
CBOD2 Settling Rate	-30	1.89	0.0	30	1.89	0.0
Stream Dispersion	-30	1.89	0.0	30	1.89	0.0
Wasteload Temperature (^oC)	-2	1.89	0.0	2	1.89	0.0
Wasteload CBOD2	-30	1.89	0.0	30	1.89	0.0
Lower Boundary Temperature (^oC)	-2	1.89	0.0	2	1.89	0.0
Lower Boundary DO	-30	1.89	0.0	30	1.89	0.0
Lower Boundary CBOD1	-30	1.89	0.0	30	1.89	0.0
Lower Boundary CBOD2	-30	1.89	0.0	30	1.89	0.0
Lower Boundary NBOD	-30	1.89	0.0	30	1.89	0.0

9. References

Berger Jr., William C., P.E., A. Vincent, Ph. D, Z. Xu, Ph. D., and D. Brown. *Louisiana Total Maximum Daily Load Technical Procedures*. Louisiana Department of Environmental Quality. Baton Rouge, LA: February 2016 (Revision 15).

Bowie, G.L., et. al. *Rates, Constants, and Kinetics Formulations in Surface Water Quality Modeling (Second Edition)*. Env. Res. Lab., USEPA, EPA/600/3-85/040. Athens, GA: 1985.

Baird, Rodger B., Lenore S. Clesceri, Andrew D. Eaton, and Eugene W. Rice. 2012. *Standard Methods for the Examination of Water and Wastewater, 22nd Edition.* 2012. American Public Health Association, American Water Works Association, and Water Environment Federation.

Homer, C., Dewitz J., Fry, J., Coan, M., Hossain, N., Larson, C., Herold, N., McKerrow, A., VanDriel, J.N., and Wickham, J., 2007, *Completion of the 2001 National Land Cover Database for the Conterminuous United States.* SAIC Corporation, USGS/EROS Data Center. Sioux Falls, South Dakota.

Kniffen, Fred B., and Sam Bowers Hilliard. 1998. *Louisiana, Its Land and People.* Baton Rouge and London. Louisiana State University Press.

Lee, Fred N. *Low-Flow on Streams in Louisiana*. Louisiana Department of Environmental Quality. Baton Rouge, LA: March, 2000.

Louisiana Department of Environmental Quality Ambient Network Database

Louisiana Department of Environmental Quality Permit Tracking System (PTS)

Louisiana Department of Environmental Quality. *State of Louisiana Water Quality Management Plan, Volume 4,Basin and Subsegment Boundaries*. Baton Rouge, LA: 2008.

Louisiana Department of Environmental Quality. *Environmental Regulatory Code, Part IX.* Water Regulations. Baton Rouge, LA: 2016.

Louisiana Department of Environmental Quality. *Use Attainability Analysis of Barataria and Terrebonne Basins for Revisions of Dissolved Oxygen Water Quality Criteria.* Water Quality Assessment Division. Baton Rouge, LA. May 9, 2008.

Louisiana Nutrient Management Strategy Interagency Team. 2014. *Louisiana Nutrient Management Strategy: Protection, Improvement, and Restoration of Water Quality in Louisiana's Water Bodies.* Coastal Protection and Restoration Authority of Louisiana, Louisiana Department of Agriculture and Forestry, Louisiana Department of Environmental Quality, and Louisiana Department of Natural Resources. May 2014. Baton Rouge, LA.

Louisiana Office of State Climatology, Louisiana State University, Department of Geography and Anthropology. http://www.losc.lsu.edu/plots.html. Baton Rouge, LA: 2015.

Shoemaker, L., et. al. *Compendium of Tools for Watershed Assessment and TMDL Development*. Office of Wetland, Oceans, and Watersheds, USEPA, EPA841-B-97-066. Washington, DC: May, 1997.

Smythe, E. deEtte. *Overview of the 1995 and 1996 Reference Streams*. Louisiana Department of Environmental Quality. Baton Rouge, LA: June 28, 1999.

Wiland, Bruce L. *LA-QUAL for Windows User's Manual (Version 9.34)*. Water Quality Section, Office of Environmental Services, Engineering Section, Louisiana Department of Environmental Quality. Baton Rouge LA: October, 2015.

10. Appendices

Appendix A – Detailed TMDL Analysis

Appendix A1 – Outline of TMDL Calculations

Outline of TMDL Calculations

The calculations described below apply for waterbodies where an appropriate reference stream is available. For cases where no reference stream data is applicable, calculations and reductions are determined based upon the total load. Slight variances may occur based on individual cases.

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

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

3) Projection benthic loads are determined by trial and error during the modeling process.
   a) Resuspension and SOD loads are reduced by uniform percentages.
   b) Point sources are reduced as necessary to subsequently more stringent levels of treatment consistent with the size of the treatment facility as much as possible. Point source design flows are increased to obtain an explicit MOS of 20%.
   c) Headwater and tributary concentrations of CBOD, NBOD and DO range from reference stream levels to calibration levels based on the character of the headwater. Where headwaters and tributaries exhibit man-made pollutant loads in excess of reference stream values, the loadings are reduced by the same uniform percent reduction as the benthic loads.

4) The projection benthic loading at 20 °C is calculated as the sum of the projection resuspension and SOD components expressed as gm O_2/m^2-day.

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

6) The percent reduction of man-made loads for each reach is determined from the difference between the projected man-made nonpoint load and the man-made nonpoint load found during calibration.

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

8) The total stream loading capacity at critical water temperature is calculated as the sum of:
   a) Headwater and tributary CBOD and NBOD loading in lb/d and kg/d.
   b) The natural and man-made projection benthic loading for all reaches of the stream is converted to the loading at critical temperature and summed in lb/d and kg/d.
   c) Point source CBOD and NBOD loading in lb/d and kg/d.
   d) The margin of safety in lb/d and kg/d.

Appendix A2 – Summer TMDL Summary

Summer TMDL Summary:

BAYOU L'EAU BLEU (SUBSEGMENT 120303)

Calculation of the TMDL - Kilograms per day								Total Assmilative Capacity	
Load description	WLA (kg/day)	CBOD1 LA (kg/day)	CBOD2 LA (kg/day)	NBOD (kg/day)	SOD LA (kg/day)	LA (kg/day)	MOS Load (kg/day)	Margin of Safety (kg/day)	Future Growth (kg/day)
Point Source loads	79						20	10.0	10.0
Headwater / Tributary loads		4	1	1		6	2	1.0	1.0
Benthic loads		1520	452	334	935	3,241	810	405.0	405.0
Incremental Loads		0	0	0		0	0	0.0	0.0
SUB-TOTAL	**79**	**1,524**	**453**	**335**	**935**	**3,247**	**832**	**416**	**416**
								Total Assimilative Capacity	
TMDL = WLA + LA + MOS						***4,158 kg/day***		***832***	

Calculation of the TMDL - Pounds per day							
Load description	WLA (lbs/day) (1)	CBOD1 LA (kg/day)	CBOD2 LA (kg/day)	NBOD (kg/day)	SOD LA (kg/day)	LA (lbs/day) (1)	MOS Load (lbs/day) (1)
Point Source loads	174						44
Headwater / Tributatary loads		9	2	3		13	4
Benthic loads		3,352	997	736	2,062	7,146	1,786
Incremental Loads		0	0	0		0	0
SUB-TOTAL	**174**	**3,361**	**999**	**739**	**2,062**	**7,159**	**1,834**
TMDL = WLA + LA + MOS						***9,167 lbs/day***	

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

Calculation of the TMDL - Kilograms per day							
Load description	WLA (kg/day)	CBOD1 LA (kg/day)	CBOD2 LA (kg/day)	NBOD (kg/day)	SOD LA (kg/day)	LA (kg/day)	MOS Load (kg/day)
Point Source loads	79						20
Natural Nonpoint Loads		0	0	0	0	0	
Manmade Nonpoint Loads		1,524	453	335	935	3,248	812
SUB-TOTAL	**79**	**1,524**	**453**	**335**	**935**	**3,248**	**832**
TMDL = WLA + LA + MOS						***4,159 kg/day***	

Calculation of the TMDL - Pounds per day								Total Assmilative Capacity	
Load description	WLA (lbs/day)	CBOD1 LA (kg/day)	CBOD2 LA (kg/day)	NBOD (kg/day)	SOD LA (kg/day)	LA (lbs/day)	MOS Load (lbs/day)	Margin of Safety (kg/day)	Future Growth (kg/day)
Point Source loads	174						44	22.0	22.0
Natural Nonpoint Loads		0	0	0	0	0			
Manmade Nonpoint Loads		3,360	999	739	2,062	7,162	1,790	895.0	895.0
SUB-TOTAL	**174**	**3,360**	**999**	**739**	**2,062**	**7,162**	**1,834**	**917**	**917**
								Total Assimilative Capacity	
TMDL = WLA + LA + MOS						***9,170 lbs/day***		***1,834***	

Appendix A3 – Winter TMDL Summary

Winter TMDL Summary:

BAYOU L'EAU BLEU (SUBSEGMENT 120303)

Calculation of the TMDL - Kilograms per day

Load description	WLA (kg/day)	CBOD1 LA (kg/day)	CBOD2 LA (kg/day)	NBOD (kg/day)	SOD LA (kg/day)	NBOD (kg/day)	LA (kg/day)	MOS Load (kg/day)
Point Source loads	79							20
Headwater / Tributatary loads		48	13	15			76	19
Benthic loads		1900	565	418	466		3,349	837
Incremental Loads		0	0	0			0	0
SUB-TOTAL	**79**	**1,948**	**578**	**433**	**466**		**3,425**	**876**
TMDL = WLA + LA + MOS							***4,380 kg/day***	

Calculation of the TMDL - Pounds per day

Load description	WLA (lbs/day) (1)	CBOD1 LA (kg/day)	CBOD2 LA (kg/day)	NBOD (kg/day)	SOD LA (kg/day)	LA (lbs/day) (1)	MOS Load (lbs/day) (1)
Point Source loads	174						44
Headwater / Tributatary loads		106	29	33		168	42
Benthic loads		4,190	1,246	922	1,028	7,385	1,846
Incremental Loads		0	0	0		0	0
SUB-TOTAL	**174**	**4,296**	**1,275**	**955**	**1,028**	**7,553**	**1,932**
TMDL = WLA + LA + MOS						***9,659 lbs/day***	

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

Calculation of the TMDL - Kilograms per day

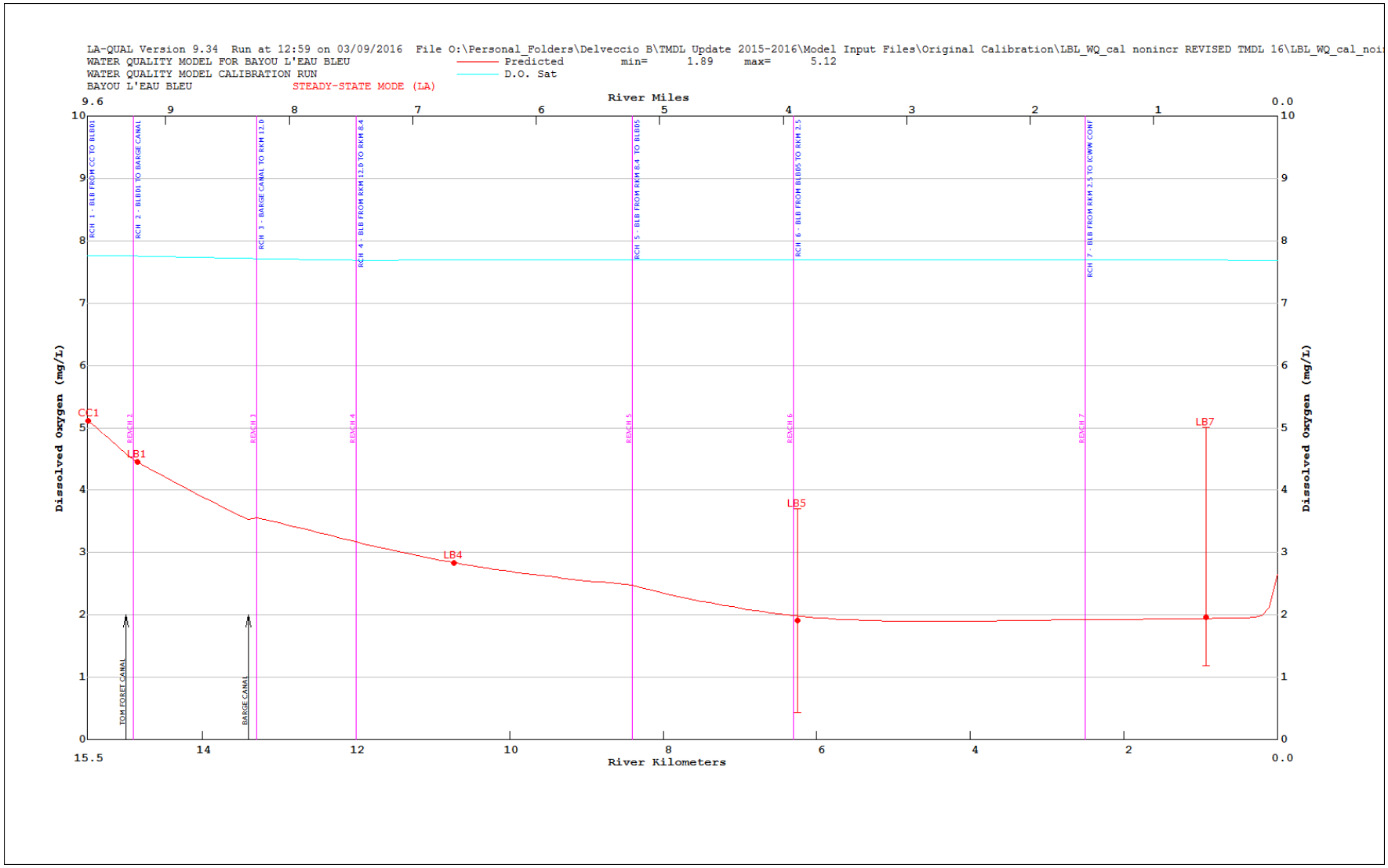
Load description	WLA (kg/day)	CBOD1 LA (kg/day)	CBOD2 LA (kg/day)	NBOD (kg/day)	SOD LA (kg/day)		LA (kg/day)	MOS Load (kg/day)
Point Source loads	79							20
Natural Nonpoint Loads		0	0	0	0		0	
Manmade Nonpoint Loads		1,948	578	432	466		3,425	856
SUB-TOTAL	**79**	**1,948**	**578**	**432**	**466**		**3,425**	**876**
TMDL = WLA + LA + MOS							***4,380 kg/day***	

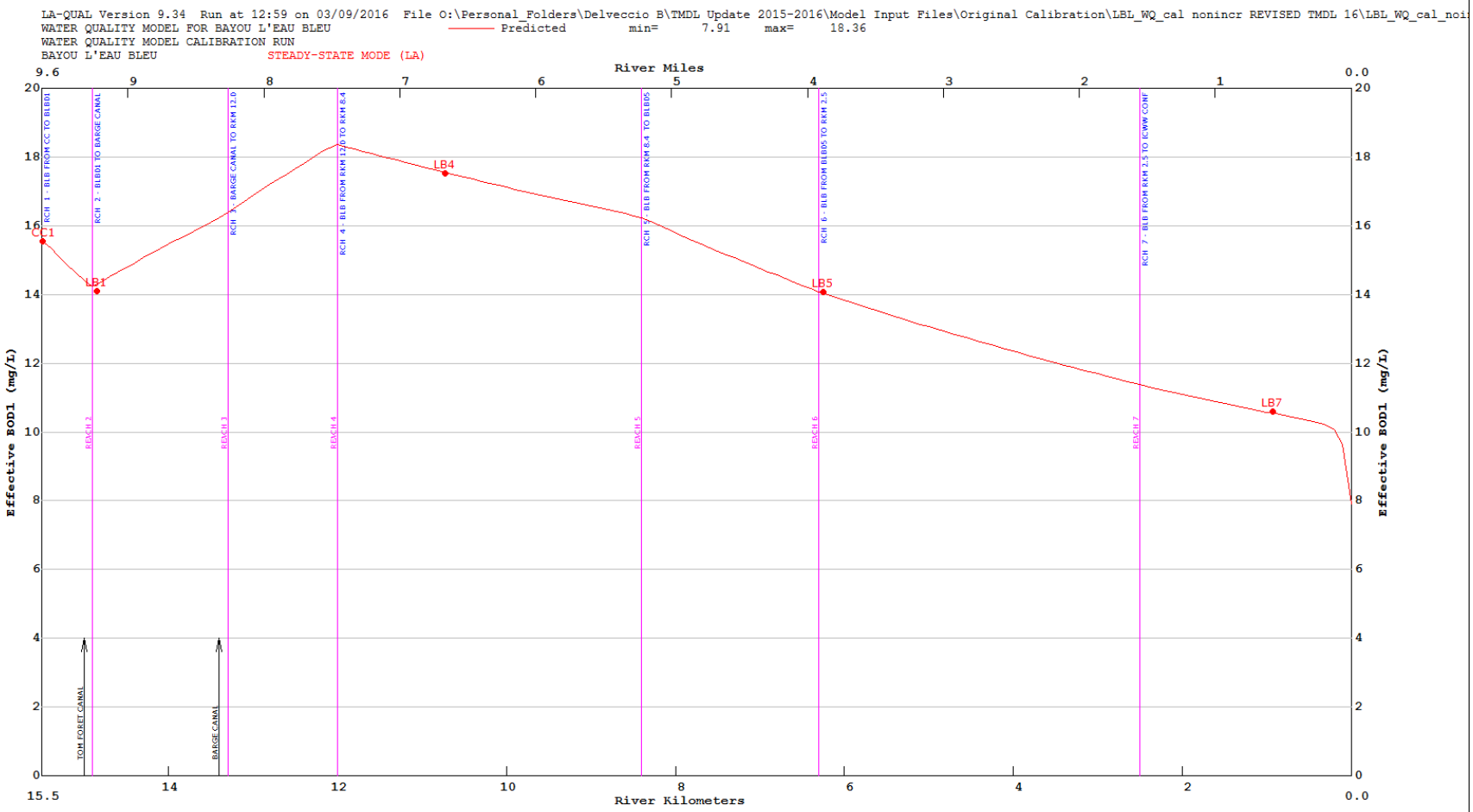
Calculation of the TMDL - Pounds per day

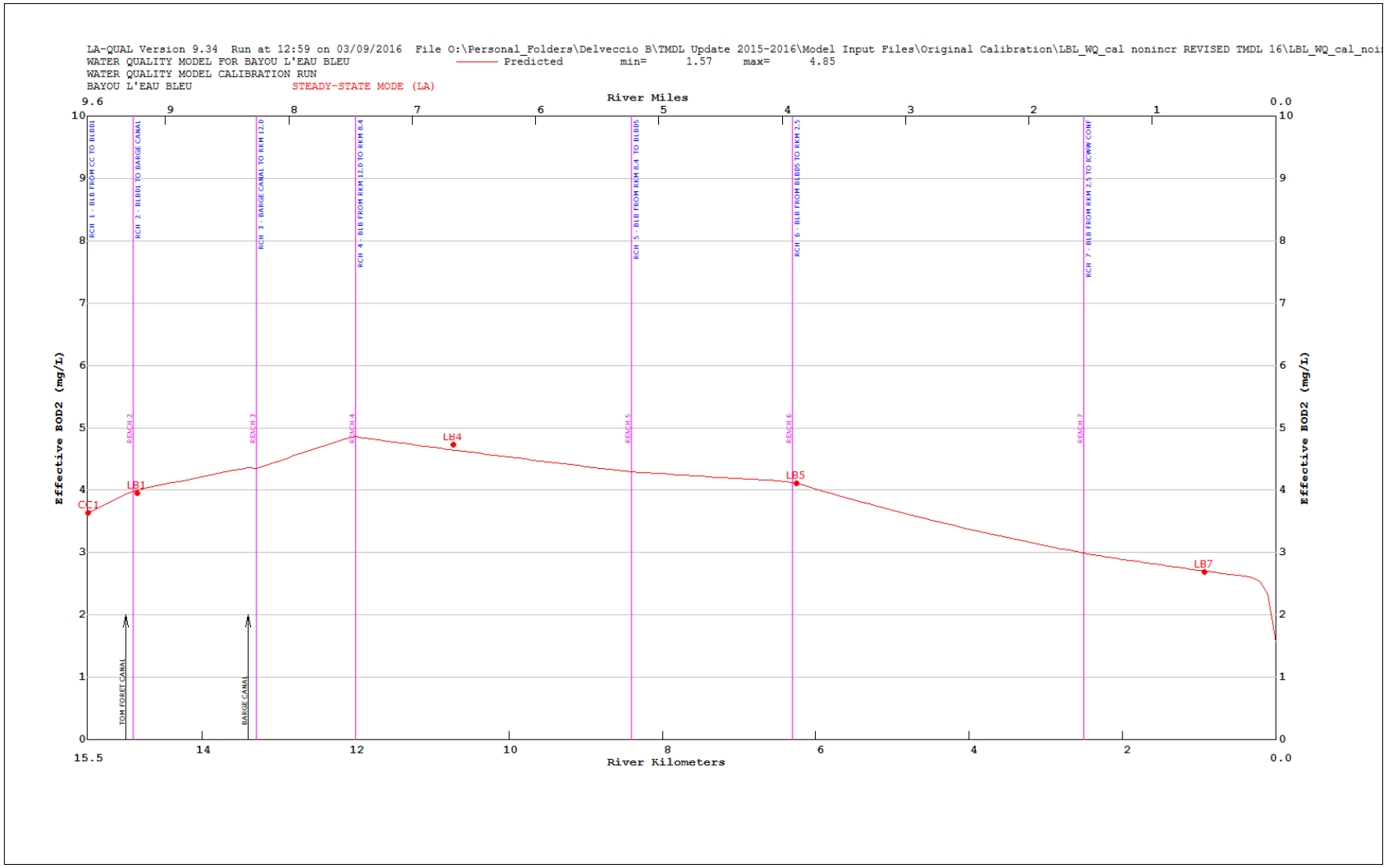
Load description	WLA (lbs/day)	CBOD1 LA (kg/day)	CBOD2 LA (kg/day)	NBOD (kg/day)	SOD LA (kg/day)	LA (lbs/day)	MOS Load (lbs/day)
Point Source loads	174						44
Natural Nonpoint Loads		0	0	0	0	0	
Manmade Nonpoint Loads		4,295	1,274	953	1,028	7,552	1,887
SUB-TOTAL	**174**	**4,295**	**1,274**	**953**	**1,028**	**7,552**	**1,931**
TMDL = WLA + LA + MOS						***9,657 lbs/day***	

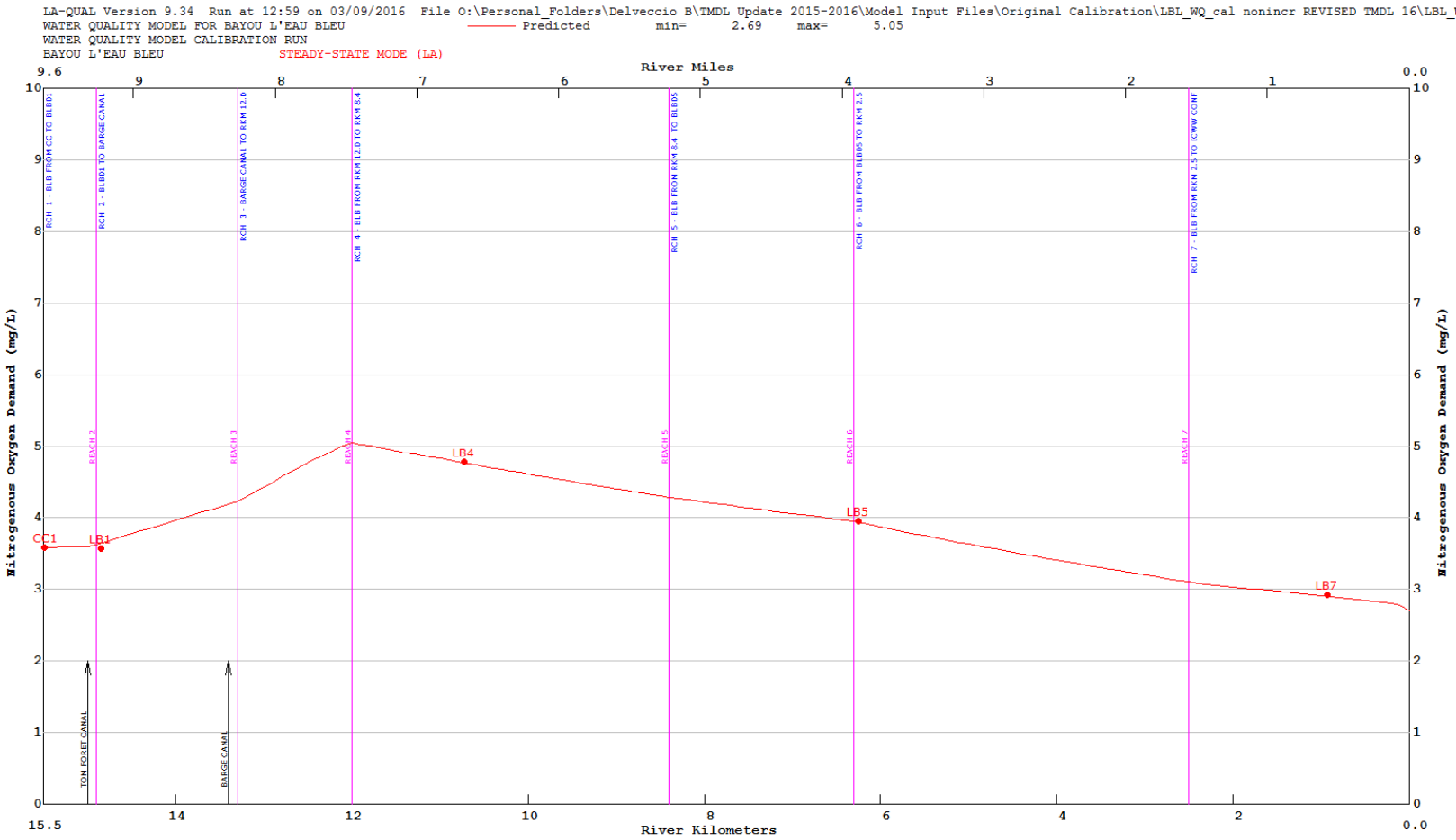
Appendix B – Calibration Model Input and Output Data Sets

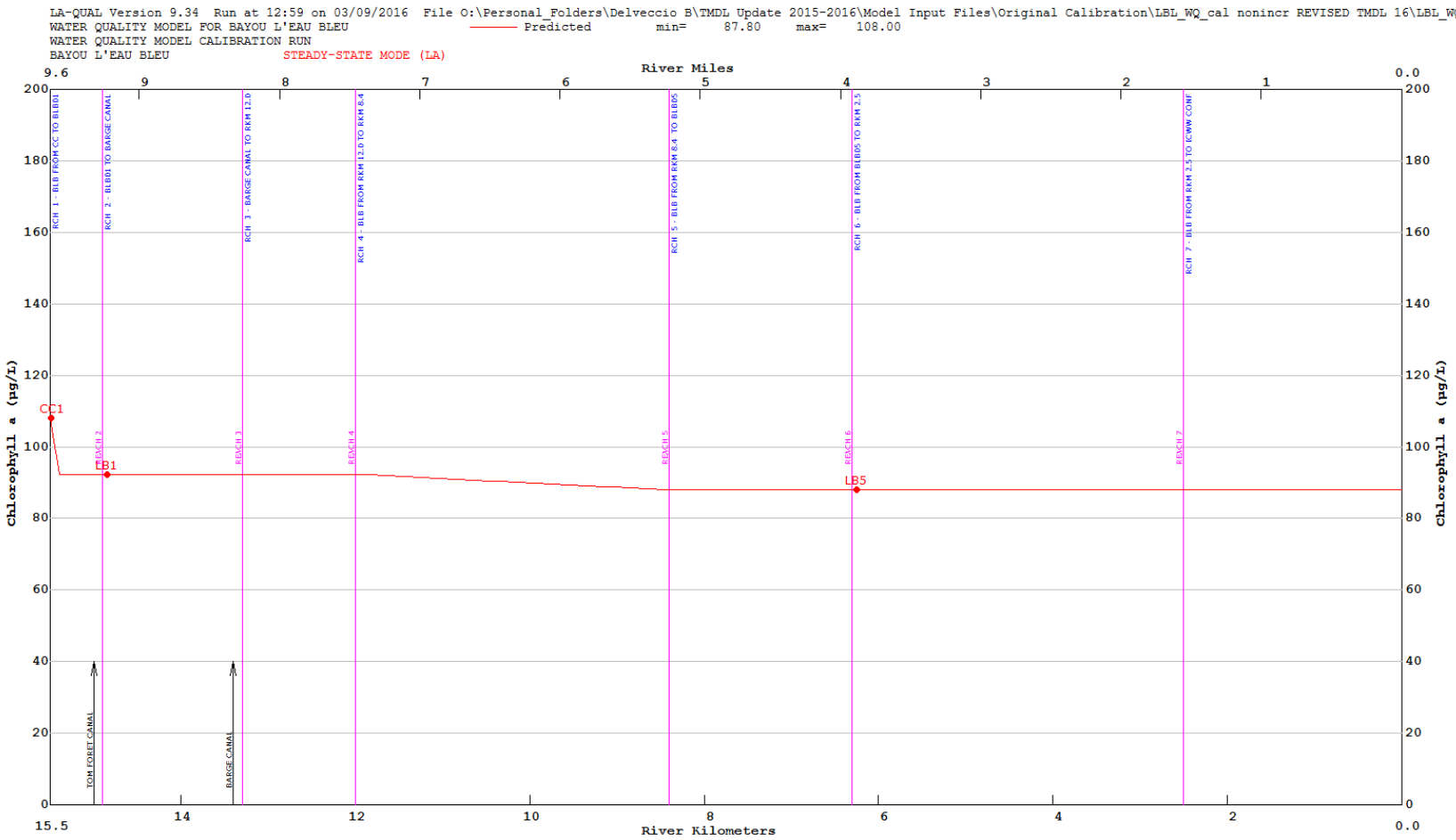
Appendix B1 – Calibration Output Graphs and Input, Overlay, and Output Files

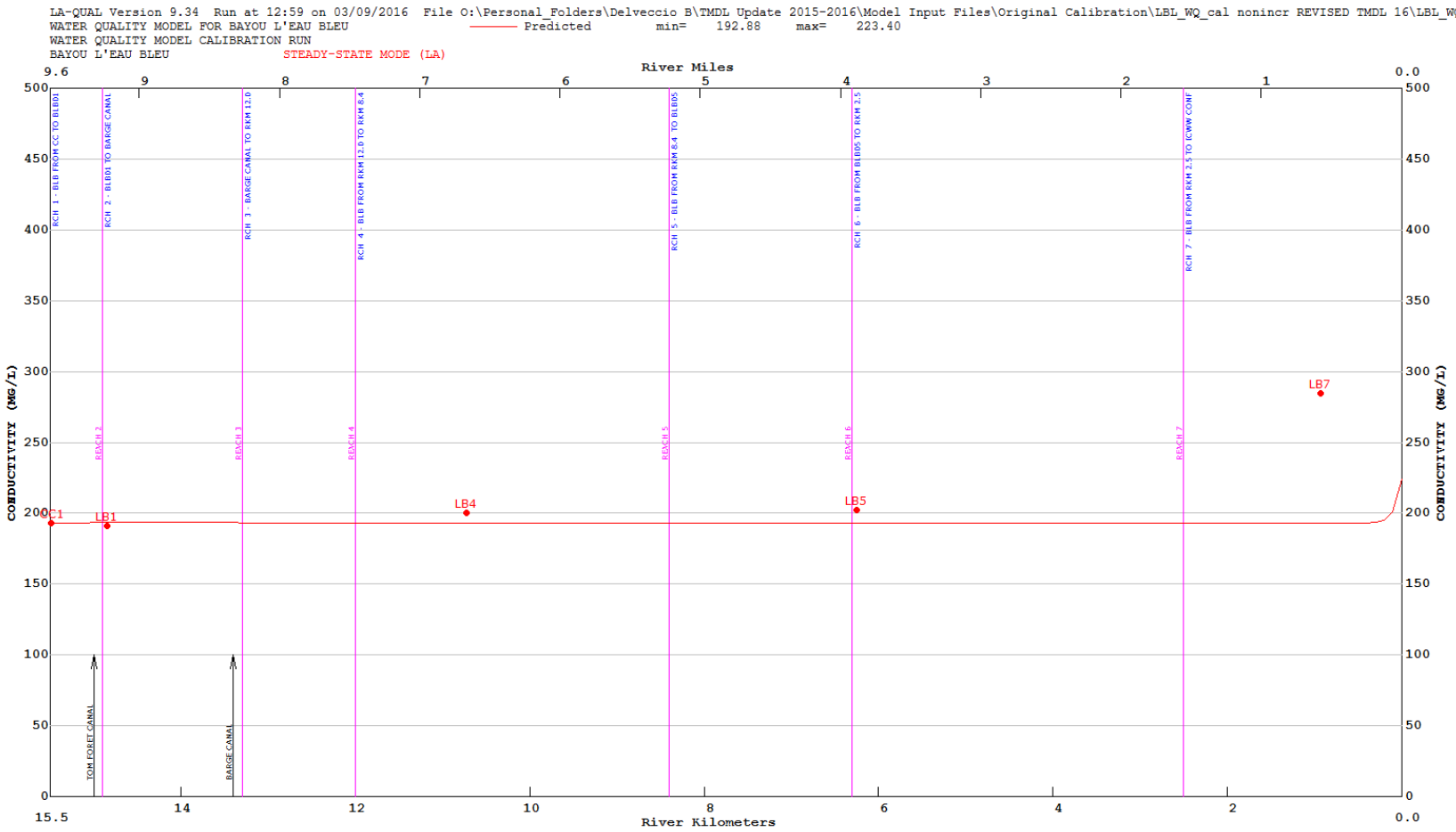

LA-QUAL Version 9.34 Run at 12:59 on 03/09/2016 File O:\Personal_Folders\Delveccio B\TMDL Update 2015-2016\Model Input Files\Original Calibration\LBL_WQ_cal nonincr REVISED TMDL 16\LBL_WQ_cal_noi
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
Predicted min= 1.89 max= 5.12
D.O. Sat
River Miles
River Kilometers
Dissolved Oxygen (mg/L)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO ICWW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FORET CANAL
BARGE CANAL
CC1
LB1
LB4
LB5
LB7

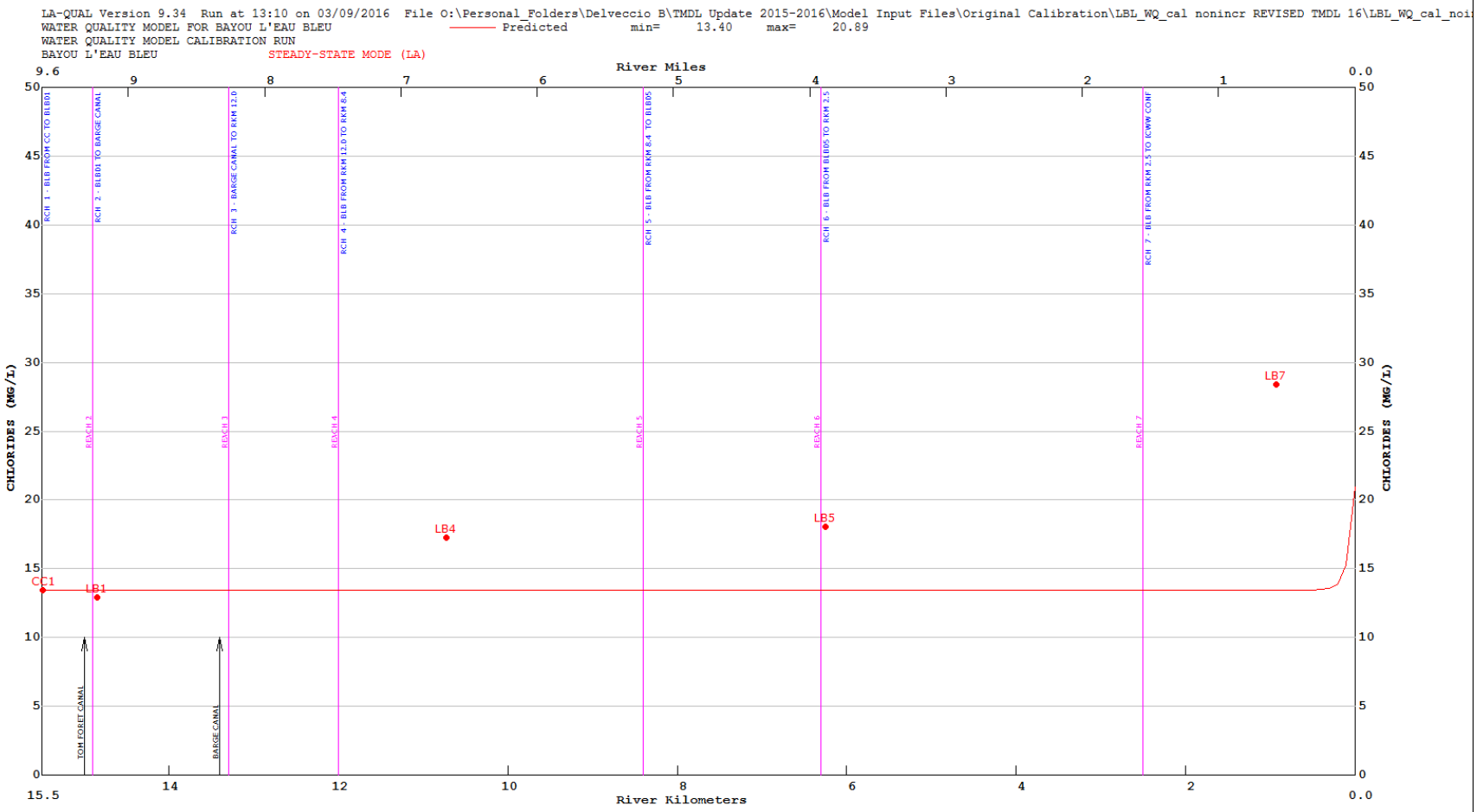

LA-QUAL Version 9.34 Run at 12:59 on 03/09/2016 File O:\Personal_Folders\Delveccio B\TMDL Update 2015-2016\Model Input Files\Original Calibration\LBL_WQ_cal nonincr REVISED TMDL 16\LBL_WQ_cal_noi
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
Predicted min= 7.91 max= 18.36
WATER QUALITY MODEL CALIBRATION RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
River Miles
River Kilometers
Effective BOD1 (mg/L)
CC1
LB1
LB4
LB5
LB7
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO ICWW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FORET CANAL
BARGE CANAL

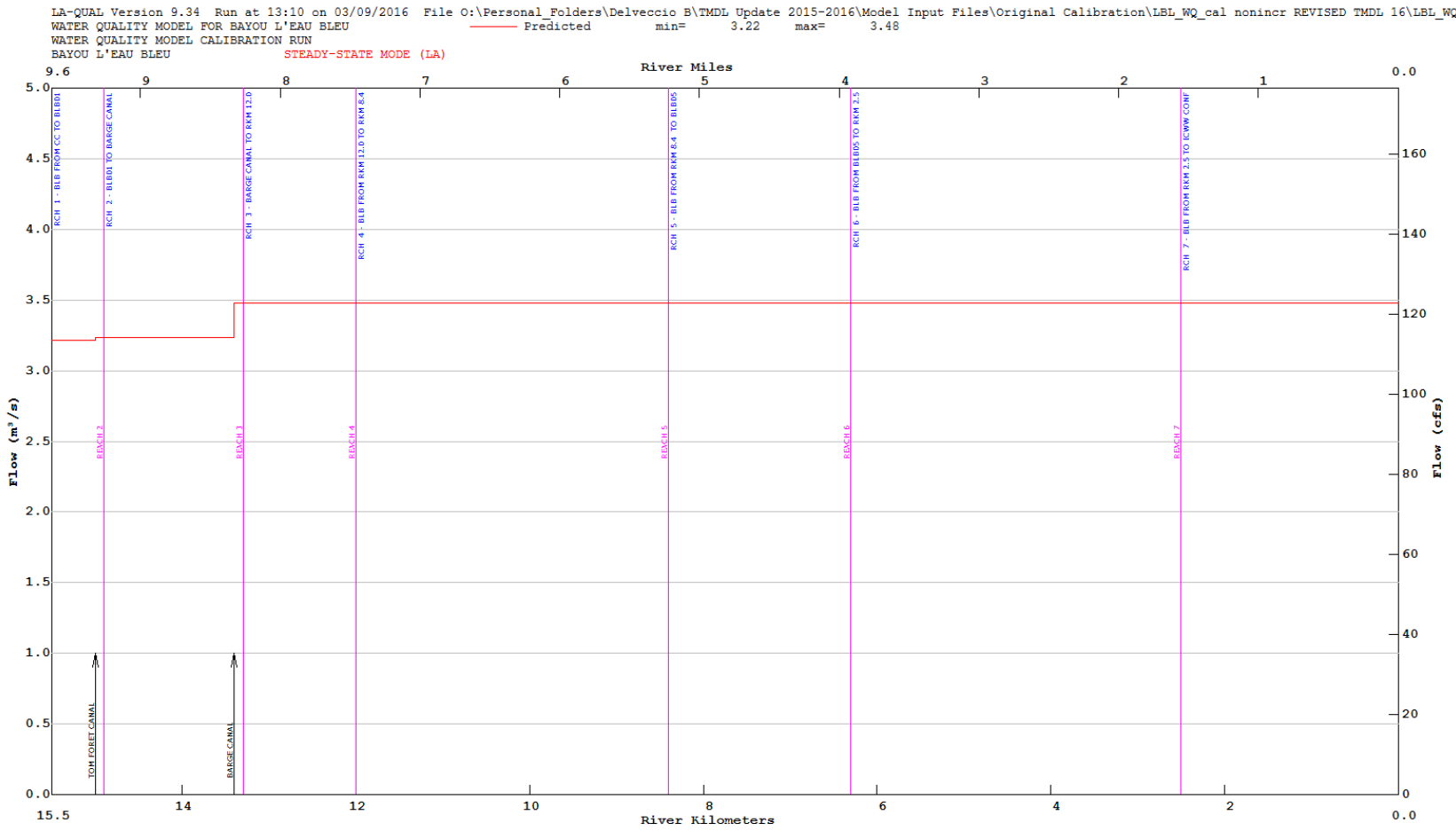

LA-QUAL Version 9.34 Run at 12:59 on 03/09/2016 File O:\Personal_Folders\Delveccio B\TMDL Update 2015-2016\Model Input Files\Original Calibration\LBL_WQ_cal nonincr REVISED TMDL 16\LBL_WQ_cal_noi
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
Predicted min= 1.57 max= 4.85
WATER QUALITY MODEL CALIBRATION RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
River Miles
River Kilometers
Effective BOD2 (mg/L)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO IC/WW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FOULET CANAL
BARGE CANAL
CC1
LB1
LB4
LB5
LB7

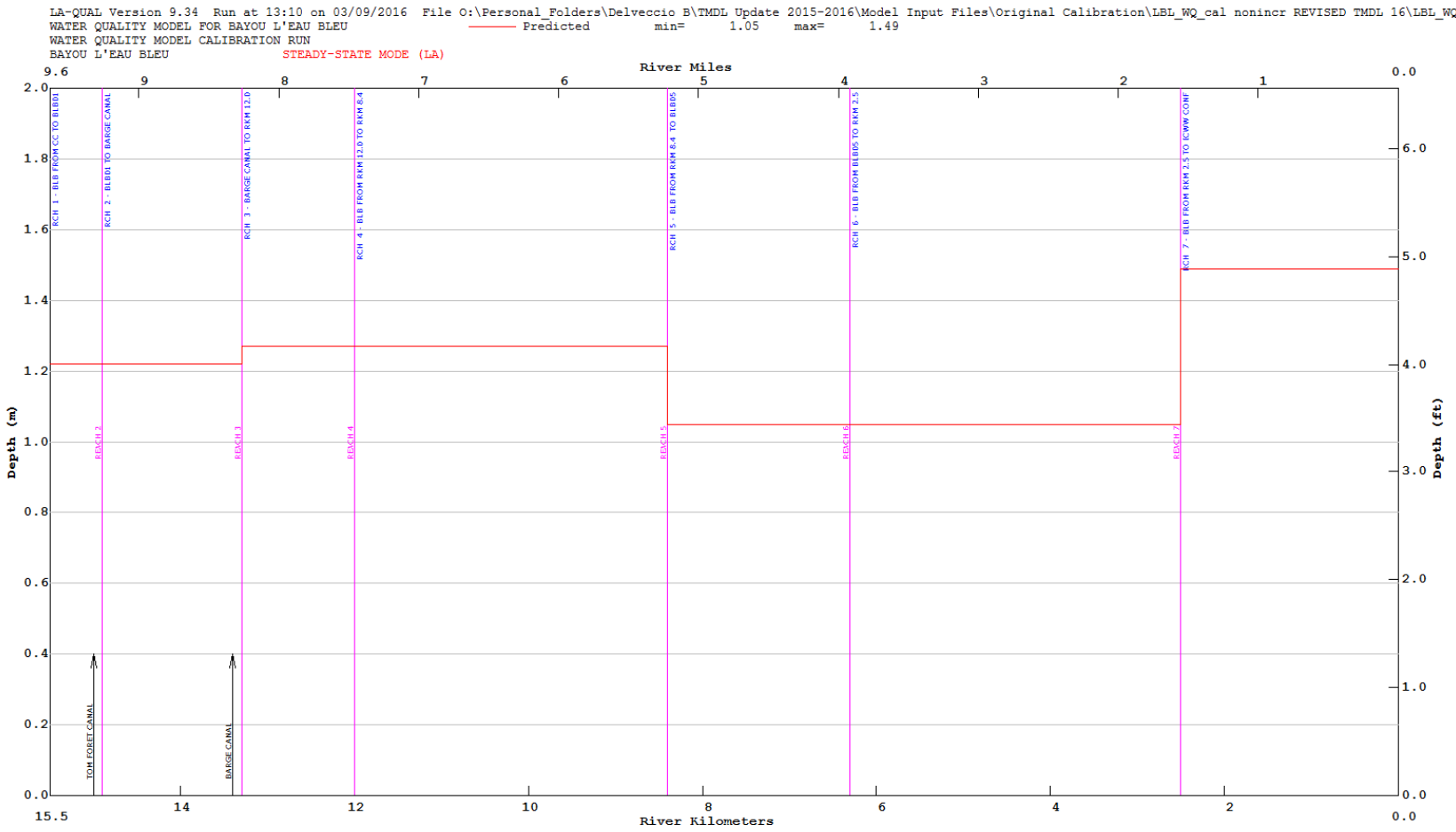

LA-QUAL Version 9.34 Run at 12:59 on 03/09/2016 File O:\Personal_Folders\Delveccio B\TMDL Update 2015-2016\Model Input Files\Original Calibration\LBL_WQ_cal nonincr REVISED TMDL 16\LBL_WQ_cal_noi
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
Predicted min= 2.69 max= 5.05
WATER QUALITY MODEL CALIBRATION RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
River Miles
River Kilometers
Nitrogenous Oxygen Demand (mg/L)
CC1
LB1
LB4
LB5
LB7
TOM FOIRET CANAL
BARGE CANAL

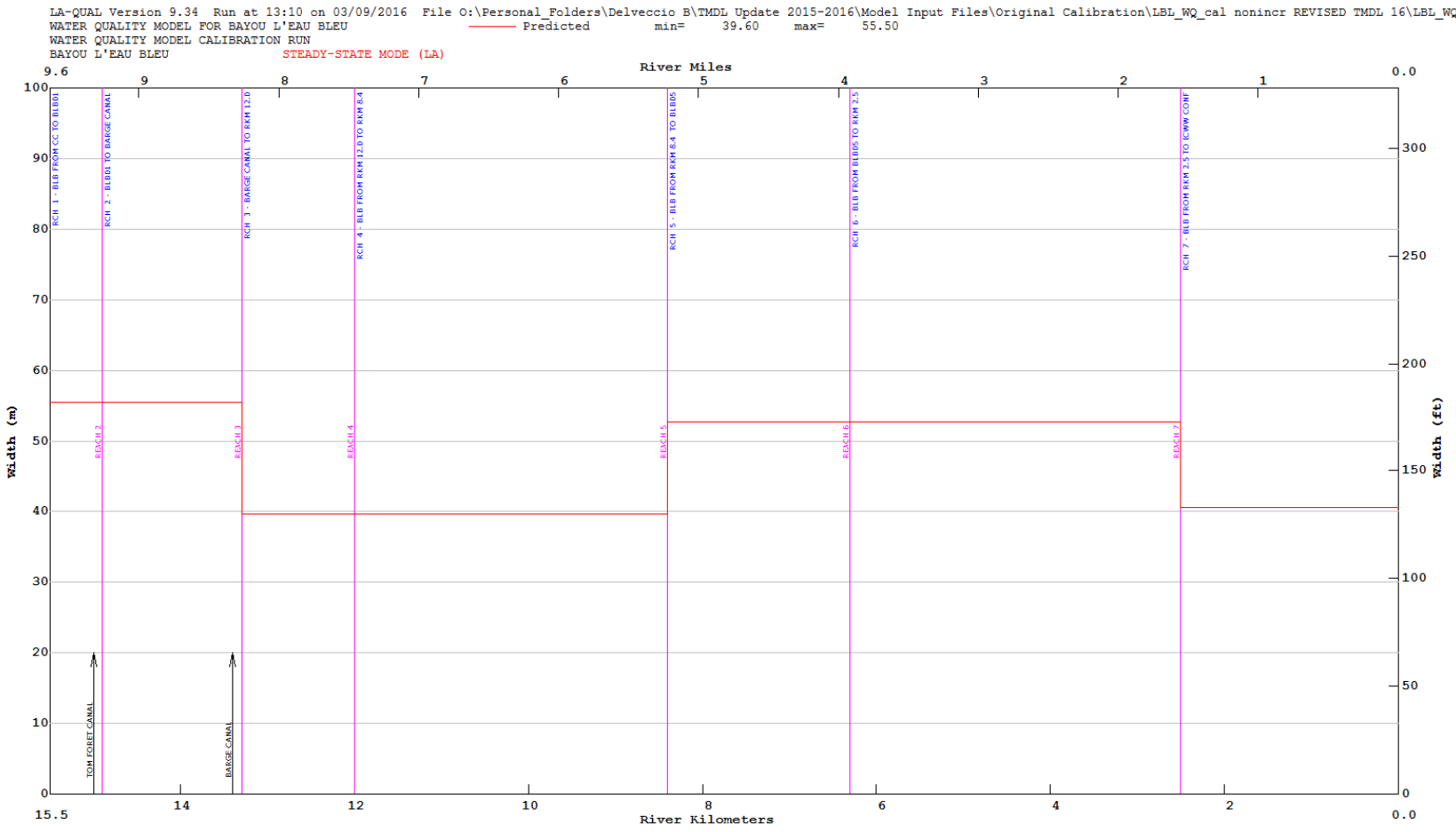

LA-QUAL Version 9.34 Run at 12:59 on 03/09/2016 File O:\Personal_Folders\Delveccio B\TMDL Update 2015-2016\Model Input Files\Original Calibration\LBL_WQ_cal nonincr REVISED TMDL 16\LBL_WQ_cal_noi
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
Predicted min= 87.80 max= 108.00
WATER QUALITY MODEL CALIBRATION RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
River Miles
River Kilometers
Chlorophyll a (pg/L)
CC1
LB1
LB5
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO ICWW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FORET CANAL
BARGE CANAL


LA-QUAL Version 9.34 Run at 12:59 on 03/09/2016 File O:\Personal_Folders\Delveccio B\TMDL Update 2015-2016\Model Input Files\Original Calibration\LBL_WQ_cal nonincr REVISED TMDL 16\LBL_WQ_cal_noi
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
Predicted min= 192.88 max= 223.40
WATER QUALITY MODEL CALIBRATION RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
River Miles
River Kilometers
CONDUCTIVITY (MG/L)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO ICWW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FOLET CANAL
BARGE CANAL
CC1
LB1
LB4
LB5
LB7


LA-QUAL Version 9.34 Run at 13:10 on 03/09/2016 File O:\Personal_Folders\Delveccio B\TMDL Update 2015-2016\Model Input Files\Original Calibration\LBL_WQ_cal nonincr REVISED TMDL 16\LBL_WQ_cal_noi
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
Predicted min= 13.40 max= 20.89
WATER QUALITY MODEL CALIBRATION RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
River Miles
River Kilometers
CHLORIDES (MG/L)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO ICWW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FOLET CANAL
BARGE CANAL
CC1
LB1
LB4
LB5
LB7


LA-QUAL Version 9.34 Run at 13:10 on 03/09/2016 File O:\Personal_Folders\Delveccio B\TMDL Update 2015-2016\Model Input Files\Original Calibration\LBL_WQ_cal nonincr REVISED TMDL 16\LBL_WQ_cal_noi
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
Predicted min= 3.22 max= 3.48
WATER QUALITY MODEL CALIBRATION RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
River Miles
River Kilometers
Flow (m³/s)
Flow (cfs)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO ICWW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FORET CANAL
BARGE CANAL


LA-QUAL Version 9.34 Run at 13:10 on 03/09/2016 File O:\Personal_Folders\Delveccio B\TMDL Update 2015-2016\Model Input Files\Original Calibration\LBL_WQ_cal nonincr REVISED TMDL 16\LBL_WQ_cal_noi
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
Predicted min= 1.05 max= 1.49
WATER QUALITY MODEL CALIBRATION RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
River Miles
Depth (m)
Depth (ft)
River Kilometers
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO ICWW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FORET CANAL
BARGE CANAL


LA-QUAL Version 9.34 Run at 13:10 on 03/09/2016 File O:\Personal_Folders\Delveccio B\TMDL Update 2015-2016\Model Input Files\Original Calibration\LBL_WQ_cal nonincr REVISED TMDL 16\LBL_WQ_cal_noi
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
Predicted min= 39.60 max= 55.50
WATER QUALITY MODEL CALIBRATION RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
River Miles
River Kilometers
Width (m)
Width (ft)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO ICWW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FOLET CANAL
BARGE CANAL

BAYOU L'EAU BLEU Calibration Input File

```
CNTROL01     WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
CNTROL02     WATER QUALITY MODEL CALIBRATION RUN
CNTROL12 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CONDUCTIVITY                IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CHLORIDES                   IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06 YES BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT08  NO PHOSPHORUS
MODOPT09  NO CHLOROPHYLL A
MODOPT10  NO MACROPHYTES
MODOPT11  NO COLIFORM
MODOPT12  NO NONCONSERVATIVE MATERIAL
ENDATA02
PROGRAM  DISPERSION EQUATION                =     3.0
PROGRAM  TIDE HEIGHT                        =     0.063
PROGRAM  PERIOD OF TIDAL RISE               =     13.0
PROGRAM  K2 MAXIMUM                         =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD       =     2.
PROGRAM  SETTLING RATE UNITS                =     2.
PROGRAM  WIND VELOCITY                      =     0.68
PROGRAM  ALGAE OXYGEN PROD                  =     0.00
PROGRAM  KL MINIMUM                         =     0.70
PROGRAM  OCEAN EXCHANGE RATIO               =     1.0
PROGRAM  EFF BOD1                           =     0.0
PROGRAM  EFF BOD2                           =     0.0
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
```

```
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------**********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID  1    LB BLB FROM CC TO BLB01                15.50      14.90    0.100
REACH ID  2    LB BLB01 TO BARGE CANAL                14.90      13.30    0.100
REACH ID  3    LB BARGE CANAL TO RKM 12.0             13.30      12.00    0.100
REACH ID  4    LB BLB FROM RKM 12.0 TO RKM 8.4        12.00       8.40    0.100
REACH ID  5    LB BLB FROM RKM 8.4  TO BLB05           8.40       6.30    0.100
REACH ID  6    LB BLB FROM BLB05 TO RKM 2.5            6.30       2.50    0.100
REACH ID  7    LB BLB FROM RKM 2.5 TO ICWW CONF        2.50       0.00    0.100
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
!Reach 1 - BLB-02
HYDR-1      1   0.0    0.0    55.50  0.0    0.00    1.22          0.030
!REACH 2 - BLB-02
HYDR-1      2   0.0    0.0    55.50  0.0    0.00    1.22          0.030
!REACH 3 - BLB-04
HYDR-1      3   0.0    0.0    39.60  0.0    0.00    1.27          0.030
!REACH 4 - BLB-04
HYDR-1      4   0.0    0.0    39.60  0.0    0.00    1.27          0.030
!REACH 5 - BLB-05
HYDR-1      5   0.0    0.0    52.70  0.0    0.00    1.05          0.030
!REACH 6 - BLB-05
HYDR-1      6   0.0    0.0    52.70  0.0    0.00    1.05          0.030
!REACH 7 - BLB-07
HYDR-1      7   0.0    0.0    40.54  0.0    0.00    1.49          0.030
ENDATA09
```

```
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
HYDR-2      1  1.00   23.000   0.833    0.0       1.0
HYDR-2      2  1.00   23.000   0.833    0.0       1.0
HYDR-2      3  1.00   23.000   0.833    0.0       1.0
HYDR-2      4  1.00   23.000   0.833    0.0       1.0
HYDR-2      5  1.00   23.000   0.833    0.0       1.0
HYDR-2      6  1.00   23.000   0.833    0.0       1.0
HYDR-2      7  1.00   23.000   0.833    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO                            CHL A   MACROPHYTES
!Normally when the chlorophyll a values are high and there is a DO swing in the continuous
!monitors of more than 2 mg/l, modeling to (DO min + 1) is the norm.  For this survey, only
!2 continuous monitors were working for Bayou L'Eau Bleu mainstem.  The (DO min + 1) values
!for these monitors were very close to the insitu readings taken at the sample times.  Therefore,
!to be consistent with the sites that did not have continuous monitors, the insitu readings
!taken at the sample times will be used for all sites.
!REACH 1 INSITU AVG (CC-01 + BLB-01) FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-01
INITIAL     1      28.5    0.09   4.91                           92.2   0.00
!REACH 2 INSITU BLB-01 FOR ALL PARAMETERS
INITIAL     2      28.5    0.09   4.44                           92.2   0.00
!REACH 3 INSITU AVG (BLB-01 + BLB-04) FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-01
INITIAL     3      28.8    0.09   3.64                           92.2   0.00
!REACH 4 INSITU BLB-04 FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-01
INITIAL     4      29.0    0.09   2.83                           92.2   0.00
!REACH 5 INSITU BLB-05 FOR ALL PARAMETERS
INITIAL     5      28.9    0.09   1.91                           87.8   0.00
!REACH 6 INSITU AVG (BLB-05 + BLB-07) FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
```

```
!CHLOROPHYLL A - BLB-05


INITIAL     6      28.9    0.12   1.94                           87.8   0.00
!REACH 7 INSITU BLB-07 FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-05
INITIAL     7      28.9    0.14   1.96                           87.8   0.00
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----*****----- ******-------*******-------*******-------*******-------***
!Texas equation was determined to be most suitable for this model.
!Settling rates were determined by calibration.
!Decay rate is the average decay rate of BLB-01, BLB-04, BLB-05, BLB-07
!               REA                          BOD 1  BOD 1 BOD1SET       BOD 2    BOD 2 BOD2SET
!          R#   EQ                       SOD  DECAY  SETT   TO SOD       DECAY    SETT   TO SOD
COEF-1      1   11.0                     2.50  0.120   0.40               0.037   0.20
COEF-1      2   11.0                     1.50  0.120   0.20               0.037   0.20
COEF-1      3   11.0                     1.00  0.120   0.20               0.037   0.20
COEF-1      4   11.0                     1.00  0.120   0.20               0.037   0.20
COEF-1      5   11.0                     2.00  0.120   0.20               0.037   0.20
COEF-1      6   11.0                     2.00  0.120   0.20               0.037   0.50
COEF-1      7   11.0                     1.50  0.120   0.20               0.037   0.50
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
!Decay rate is the average decay rate of BLB-01, BLB-04, BLB-05, BLB-07
!Settling rates were determined by calibration.
COEF-2      1    0.118   0.10
COEF-2      2    0.118   0.10
COEF-2      3    0.118   0.10
COEF-2      4    0.118   0.10
COEF-2      5    0.118   0.10
COEF-2      6    0.118   0.20
COEF-2      7    0.118   0.20
ENDATA13
```

```
ENDATA14
ENDATA15


!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#      DO    CBOD       NBOD
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********
!          R#             CHL A
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1        0.0     50.0      0.0     00.0      0.0    150.0
NONPOINT    2     1300.0    300.0      0.0     00.0      0.0    250.0
NONPOINT    3     1100.0    350.0      0.0     00.0      0.0    250.0
NONPOINT    4      700.0     10.0      0.0     00.0      0.0     80.0
NONPOINT    5      100.0     30.0      0.0     00.0      0.0    100.0
NONPOINT    6      300.0     20.0      0.0     00.0      0.0    150.0
NONPOINT    7      300.0     75.0      0.0     00.0      0.0    150.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   COND    CHLORIDES   HDWTR XCHANGE
! The headwater flow was assumed to be 93% of the flow calculated from the dye study
```

```
! (3.48 cms) minus the flow from Tom Foret Canal.
! All other measurements are the average CC-01 and CC-02.



! Moved Headwter exchange from Data Type 3 to Data Type 20 3/1/16
HDWTR-1     1  BAYOU L'EAU BLEU          3.2168   28.80   0.09   193.0      13.4      1.0
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********---------*********
!          E#      DO      BOD 1    NBOD                      BOD 2
! All measurements are the average CC-01 and CC-02.
HDWTR-2     1     5.12     15.56    3.58                      3.63
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------*********
!          E#             CHL A
! This measurement is CC-02 because no chlorophyll a for CC-01.
HDWTR-3     1             108.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  --------------------*********---------*********---------*********
!          E#     NAME               FLOW      TEMP   SALINITY   COND  CHLORIDES
! Assumed flow for Tom Foret Canal to be the average flow for the Lockport STP
! for the months of June 2004 and July 2004.  0.482 mgd = 0.0211 cms
! All other measurements are from site TFC-01.
WSTLD-1     6  TOM FORET CANAL       0.0211    29.00     0.13    277.0    18.6
! The headwater flow was assumed to be 7% of the flow calculated from the dye study
! (3.48 cms) minus the flow from Tom Foret Canal.
! All other measurements are from CC-02.
WSTLD-1    22  BARGE CANAL           0.2421    28.7      0.08    184.0    13.5
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
```

```
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********----********---------*****---------********
!          E#       DO    BOD 1         NBOD                            BOD 2
! All measurements are from site TFC-01.
WSTLD-2     6      2.91   7.43          4.64                            3.67
! All other measurements are from CC-02.
WSTLD-2    22      4.87  16.89          4.13                            3.66
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
! No measurement taken.
WSTLD-3     6
! All measurements are from CC-02.
WSTLD-3    22            108.0
ENDATA26
! All measurements are from ICWW-01 except Chlorophyll a
! No measurement taken on ICWW so BLB-05 used for Chlorophyll a.
LOWER BC TEMPERATURE                        =  29.00
LOWER BC SALINITY                           =   0.13
LOWER BC CONSERVATIVE MATERIAL I            = 271.00
LOWER BC CONSERVATIVE MATERIAL II           =  32.50
LOWER BC DISSOLVED OXYGEN                   =   3.71
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =   4.41
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =   0.00
LOWER BC CHLOROPHYLL A                      =   87.8
LOWER BC NBOD                               =   2.54
ENDATA27
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  5  6  7
ENDATA30
OVERLAY 1 OPDATA_1.TXT                     BAYOU L'EAU BLEU MAINSTEM
```

```
ENDATA31
```

BAYOU L'EAU BLEU 120303 CALIBRATION OVERLAY DATA SET

```
STATION CC1 (CC-01&02)     15.49
1                   28.8                TEMPERATURE
3                  193.0                CONDUCTIVITY
4                   13.4                CHLORIDES
5                   5.12                DISSOLVED OXYGEN
6                  15.56                CBOD1
13                 108.0                CHLOROPHYLL A
16                  3.63                CBOD2
18                  3.58                NBOD
STATION LB1 (BLB-01)       14.85
1                   28.5                TEMPERATURE
3                  191.0                CONDUCTIVITY
4                   12.9                CHLORIDES
5                   4.44                DISSOLVED OXYGEN
6                  14.10                CBOD1
13                  92.2                CHLOROPHYLL A
16                  3.95                CBOD2
18                  3.56                NBOD
STATION LB2 (BLB-02)       13.55
34                  55.5                WIDTH
33                  1.22                DEPTH
STATION LB4 (BLB-04)       10.73
34                  39.6                WIDTH
33                  1.27                DEPTH
1                   29.0                TEMPERATURE
3                  200.0                CONDUCTIVITY
4                  17.20                CHLORIDES
5                   2.83                DISSOLVED OXYGEN
6                  17.51                CBOD1
16                  4.72                CBOD2
18                  4.78                NBOD
```

```
STATION LB6 (BLB-06)        7.29
31                   3.2168
32                   1.50                 DISPERSION




STATION LB5 (BLB-05)        6.25
34                   52.7                 WIDTH
33                   1.05                 DEPTH
1          28.6      28.9      29.8       TEMPERATURE
3                   202.0                 CONDUCTIVITY
4                   18.00                 CHLORIDES
5          0.44      1.91      3.69       DISSOLVED OXYGEN
6                   14.08                 CBOD1
13                   87.8                 CHLOROPHYLL A
16                   4.10                 CBOD2
18                   3.94                 NBOD
STATION LB7 (BLB-07)        0.93
34                   40.5                 WIDTH
33                   1.49                 DEPTH
1          28.5      28.9      30.3       TEMPERATURE
3                   285.0                 CONDUCTIVITY
4                   28.40                 CHLORIDES
5          1.19      1.96      5.01       DISSOLVED OXYGEN
6                   10.60                 CBOD1
16                   2.68                 CBOD2
18                   2.92                 NBOD
MRK 14.9       REACH 2
MRK 13.3       REACH 3
MRK 12.0       REACH 4
MRK  8.4       REACH 5
MRK  6.3       REACH 6
MRK  2.5       REACH 7
END
```

BAYOU L'EAU BLEU 120303 CALIBRATION OUTPUT DATA SET

```
LA-QUAL Version 9.34
Louisiana Department of Environmental Quality

Input file is O:\Personal_Folders\Delveccio B\TMDL Update 2015-2016\Model Input Files\Original Calibration\LBL_WQ_cal nonincr REVISED TMDL
16\LBL_WQ_cal_noincr REVISED TMDL 16.txt
Running in steady-state mode using LA defaults
Output produced at 14:39 on 03/23/2016

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

CARD TYPE       CONTROL TITLES

TITLE01         WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
TITLE02         WATER QUALITY MODEL CALIBRATION RUN
CNTROL12  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

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

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE
```

```
PROGRAM         DISPERSION EQUATION                =         3.00000 (values entered as a function of D,Q,Vmean)
PROGRAM         TIDE HEIGHT                        =         0.06300 meters
PROGRAM         PERIOD OF TIDAL RISE               =        13.00000 hours
PROGRAM         K2 MAXIMUM                         =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD       =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS                =         2.00000 (values entered as per day)
PROGRAM         WIND VELOCITY                      =         0.68000 meters/sec
PROGRAM         ALGAE OXYGEN PROD                  =         0.00000 mg O/ug chl a/day
PROGRAM         KL MINIMUM                         =         0.70000 meters/day
PROGRAM         OCEAN EXCHANGE RATIO               =         1.00000
PROGRAM         EFF BOD1                           =         0.00000 mg/L BOD1 per ug/L chl a
PROGRAM         EFF BOD2                           =         0.00000 mg/L BOD2 per ug/L chl a
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

$$$ DATA TYPE 6 (PHYTOPLANKTON CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

$$$ DATA TYPE 7 (PERIPHYTON CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                                   BEGIN          END    ELEM   REACH    BEGIN          END    ELEM   REACH    ELEMS  BEGIN   END
CARD TYPE  REACH  ID  NAME                         REACH         REACH  LENGTH  LENGTH   REACH         REACH  LENGTH  LENGTH  PER RCH  ELEM   ELEM
                                                     km            km      km      km      mi            mi      mi      mi              NUM    NUM

REACH ID      1   LB  BLB FROM CC TO BLB01         15.50  to     14.90  0.1000    0.60    9.63  to     9.26  0.0622    0.37       6      1      6
REACH ID      2   LB  BLB01 TO BARGE CANAL         14.90  to     13.30  0.1000    1.60    9.26  to     8.27  0.0622    0.99      16      7     22
REACH ID      3   LB  BARGE CANAL TO RKM 12.0      13.30  to     12.00  0.1000    1.30    8.27  to     7.46  0.0622    0.81      13     23     35
REACH ID      4   LB  BLB FROM RKM 12.0 TO RKM 8.4 12.00  to      8.40  0.1000    3.60    7.46  to     5.22  0.0622    2.24      36     36     71
REACH ID      5   LB  BLB FROM RKM 8.4  TO BLB05    8.40  to      6.30  0.1000    2.10    5.22  to     3.92  0.0622    1.31      21     72     92
REACH ID      6   LB  BLB FROM BLB05 TO RKM 2.5     6.30  to      2.50  0.1000    3.80    3.92  to     1.55  0.0622    2.36      38     93    130
REACH ID      7   LB  BLB FROM RKM 2.5 TO ICWW CONF 2.50  to      0.00  0.1000    2.50    1.55  to     0.00  0.0622    1.55      25    131    155
ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID       WIDTH       WIDTH       WIDTH       DEPTH       DEPTH       DEPTH      SLOPE     MANNINGS      EVAP
                            "a"         "b"         "c"         "d"         "e"         "f"                    "n"
                         coeff.(m)   exp.of Q   const.(m)   coeff.(m)   exp.of Q   const.(m)                            cm/d
```

```
HYDR-1        1   LB       0.000       0.000      55.500       0.000       0.000       1.220     0.00000      0.030    0.00000
HYDR-1        2   LB       0.000       0.000      55.500       0.000       0.000       1.220     0.00000      0.030    0.00000
HYDR-1        3   LB       0.000       0.000      39.600       0.000       0.000       1.270     0.00000      0.030    0.00000
HYDR-1        4   LB       0.000       0.000      39.600       0.000       0.000       1.270     0.00000      0.030    0.00000
HYDR-1        5   LB       0.000       0.000      52.700       0.000       0.000       1.050     0.00000      0.030    0.00000
HYDR-1        6   LB       0.000       0.000      52.700       0.000       0.000       1.050     0.00000      0.030    0.00000
HYDR-1        7   LB       0.000       0.000      40.540       0.000       0.000       1.490     0.00000      0.030    0.00000
ENDATA09

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

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                         RANGE        "a"            "b"            "c"            "d"
                       frac(0-1)  coeff.(m²/s)     exp.of D       exp.of Q      exp.of Vmean

HYDR-2        1   LB      1.00       23.000          0.833          0.000          1.000


HYDR-2        2   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        3   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        4   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        5   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        6   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        7   LB      1.00       23.000          0.833          0.000          1.000
ENDATA10

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

CARD TYPE      REACH  ID    TEMP    SALIN       DO    NH3-N    NO3-N    PO4-P    CHL A    PERIP     BOD1     BOD2    ORG-N    ORG-P     COLI      NCM     CM-1     CM-2
                             deg C     ppt     mg/L     mg/L     mg/L     mg/L     µg/L     g/m²     mg/L     mg/L     mg/L     mg/L  #/100mL              MG/L     MG/L

INITIAL          1   LB    28.50     0.09     4.91     0.00     0.00     0.00    92.20     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL          2   LB    28.50     0.09     4.44     0.00     0.00     0.00    92.20     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL          3   LB    28.80     0.09     3.64     0.00     0.00     0.00    92.20     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL          4   LB    29.00     0.09     2.83     0.00     0.00     0.00    92.20     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL          5   LB    28.90     0.09     1.91     0.00     0.00     0.00    87.80     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL          6   LB    28.90     0.12     1.94     0.00     0.00     0.00    87.80     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL          7   LB    28.90     0.14     1.96     0.00     0.00     0.00    87.80     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                                    AEROB                SETTLD     ANAER     AEROB                          ANAER      BOD2
CARD     RCH  RCH  K2                    K2        K2        K2    BKGRND       BOD       BOD       SOD       BOD      BOD2      BOD2                BOD2   HYDR TO
TYPE     NUM   ID  OPT                   "a"       "b"       "c"       SOD     DECAY      SETT     AVAIL     DECAY     DECAY      SETT               DECAY      BOD1
                                                                     g/m²/d   per day   per day      frac   per day   per day   per day             per day   per day

COEF-1     1   LB  11 TEXAS            0.000     0.000     0.000     2.500     0.120     0.400     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     2   LB  11 TEXAS            0.000     0.000     0.000     1.500     0.120     0.200     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     3   LB  11 TEXAS            0.000     0.000     0.000     1.000     0.120     0.200     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     4   LB  11 TEXAS            0.000     0.000     0.000     1.000     0.120     0.200     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     5   LB  11 TEXAS            0.000     0.000     0.000     2.000     0.120     0.200     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     6   LB  11 TEXAS            0.000     0.000     0.000     2.000     0.120     0.200     0.000     0.000     0.037     0.500               0.000     0.000
COEF-1     7   LB  11 TEXAS            0.000     0.000     0.000     1.500     0.120     0.200     0.000     0.000     0.037     0.500               0.000     0.000
ENDATA12
```

```
$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$
                                                SETTLD              BKGRND    BKGRND                                  SETTLD
CARD TYPE      REACH  ID        NBOD      NBOD      ORGN       NH3       NH3       PO4     DENIT      ORGP      ORGP      ORGP
                                DECA      SETT     AVAIL      DECA      SRCE      SRCE      RATE      DECA      SETT     AVAIL
                             per day   per day      frac   per day    g/m²/d    g/m²/d   per day   per day   per day      frac

COEF-2           1   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           2   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           3   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           4   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           5   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           6   LB       0.118     0.200     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           7   LB       0.118     0.200     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA13
```

```
$$$ DATA TYPE 14 (ALGAE PHYTOPLANKTON AND PERIPHYTON COEFFICIENTS) $$$
                                                                   MAX                                 MAX
CARD TYPE      REACH  ID      SECCHI    CHL A:     PHYTO     PHYTO     PHYTO     PHYTO     PERIP     PERIP     PERIP      BANK
                               DEPTH     ALGAE      SETT     DEATH      GROW      RESP     DEATH      GROW      RESP   SHADING
                                   m      frac   per day   per day   per day   per day   per day   per day   per day      frac

ENDATA14

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

CARD TYPE      REACH  ID    COLIFORM       NCM       NCM
                            DIE-OFF     DECAY      SETT
                            per day   per day   per day

ENDATA15

$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE      REACH  ID      OUTFLOW      OUTFLOW      INFLOW      INFLOW      TEMP     SALIN      CM-1      CM-2  OUT/DIST  OUT/DIST   IN/DIST   IN/DIST
                                  m³/s         cfs        m³/s         cfs     deg C       ppt      MG/L      MG/L    cms/km    cfs/mi    cms/km    cfs/mi

ENDATA16

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

CARD TYPE      REACH  ID          DO      BOD1      NBOD                          BOD2
                                 mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, PHYTOPLANKTON, COLIFORM, AND NONCONSERVATIVES) $$$
                                        PHYTO
 CARD TYPE      REACH  ID        PO4     CHL A      COLI       NCM      ORGP
                                 mg/L      µg/L   #/100mL                mg/L

ENDATA18
```

```
$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$

CARD TYPE      REACH  ID        BOD1     NBOD       COLI       NCM        DO      BOD2     ORG-P       NH3       NO3       PO4
                                kg/d      kg/d     #/day                kg/d      kg/d      kg/d      kg/d      kg/d      kg/d

NONPOINT          1   LB        0.00     50.00      0.00      0.00      0.00    150.00      0.00      0.00      0.00      0.00
NONPOINT          2   LB     1300.00    300.00      0.00      0.00      0.00    250.00      0.00      0.00      0.00      0.00
NONPOINT          3   LB     1100.00    350.00      0.00      0.00      0.00    250.00      0.00      0.00      0.00      0.00
NONPOINT          4   LB      700.00     10.00      0.00      0.00      0.00     80.00      0.00      0.00      0.00      0.00
NONPOINT          5   LB      100.00     30.00      0.00      0.00      0.00    100.00      0.00      0.00      0.00      0.00
NONPOINT          6   LB      300.00     20.00      0.00      0.00      0.00    150.00      0.00      0.00      0.00      0.00
NONPOINT          7   LB      300.00     75.00      0.00      0.00      0.00    150.00      0.00      0.00      0.00      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
                                                                                                                   HDW DISP
CARD TYPE     ELEMENT   NAME                  UNIT     FLOW       FLOW    TEMP    SALIN      CM-1      CM-2     EXCHG
                                                       m³/s        cfs   deg C      ppt      MG/L      MG/L      frac

HDWTR-1           1     BAYOU L'EAU BLEU        0   3.21680  113.59960   28.80     0.09   193.000    13.400     1.000
ENDATA20

$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE     ELEMENT   NAME                          DO      BOD1     NBOD                              BOD2
                                                    mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     BAYOU L'EAU BLEU            5.12     15.56      3.58      0.00      0.00      3.63
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, PHYTOPLANKTON, COLIFORM, AND NONCONSERVATIVES) $$$
                                                              PHYTO
CARD TYPE     ELEMENT   NAME                        PO4-P     CHL A      COLI       NCM     ORG-P
                                                     mg/L      µg/L   #/100mL                mg/L

HDWTR-3           1     BAYOU L'EAU BLEU             0.00    108.00      0.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE  ELEMENT    RKILO  NAME                      FLOW       FLOW     FLOW    TEMP    SALIN      CM-1      CM-2
                                                       m³/s        cfs      MGD   deg C      ppt      MG/L      MG/L

WSTLD-1        6      15.00  TOM FORET CANAL        0.02110    0.74514    0.482   29.00     0.13   277.000    18.600
WSTLD-1       22      13.40  BARGE CANAL            0.24210    8.54963    5.526   28.70     0.08   184.000    13.500
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE     ELEMENT   NAME                          DO      BOD1     % BOD     NBOD                 %                  BOD2
```

```
                                                   mg/L      mg/L      RMVL      mg/L      mg/L    NITRIF      mg/L      mg/L

WSTLD-2           6     TOM FORET CANAL            2.91      7.43      0.00      4.64      0.00      0.00      0.00      3.67
WSTLD-2          22     BARGE CANAL                4.87     16.89      0.00      4.13      0.00      0.00      0.00      3.66
ENDATA25

$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, PHYTOPLANTON, COLIFORM, AND NONCONSERVATIVES) $$$
                                                                PHYTO
CARD TYPE     ELEMENT   NAME                       PO4-P     CHL A      COLI       NCM     ORG-P
                                                   mg/L      µg/L   #/100mL                mg/L

WSTLD-3           6     TOM FORET CANAL            0.00      0.00      0.00      0.00      0.00
WSTLD-3          22     BARGE CANAL                0.00    108.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     29.000     deg C
LOWER BC     SALINITY                          =      0.130     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =    271.000     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =     32.500     MG/L

LOWER BC     DISSOLVED OXYGEN                  =      3.710     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =      4.410     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND    =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                     =     87.800     µg/L
LOWER BC     NBOD                              =      2.540     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$

CARD TYPE     ELEMENT   DAM NAME              DAM REAERATION EQUATION       "a"       "b"       "H"

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$

CARD TYPE       PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

ENDATA29

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

NUMBER OF PLOTS =  1
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  5  6  7
ENDATA30

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

 <Notice: Deprecated overlay method is being used>
OVERLAY 1 OPDATA_1.TXT                     BAYOU L'EAU BLEU MAINSTEM
ENDATA31


CONCENTRATION ADJUSTMENTS RESULTING FROM USING EFFECTIVE CONCENTRATIONS
```

ELEM	HEADWATER NAME	CHL A	EBOD1	BOD1	EBOD2	BOD2	EORGN	ORGN	EORGP	ORGP
1	BAYOU L'EAU BLEU	108.0	15.56	15.56	3.63	3.63	3.58	3.58	0.00	0.00
LBC		87.8	4.41	4.41	0.00	0.00	2.54	2.54	0.00	0.00

```
.....NO FATAL ERRORS DETECTED IN INPUT DATA
.....MODEL CONTAINS   1 HEADWATERS,   7 REACHES,    0 DAMS,  155 ELEMENTS, AND   2 WASTELOADS
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
.....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
```

INTERMEDIATE REPORT
Dissolved Oxygen
mg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	5.02	4.91	4.80	4.69	4.58	4.48				
LB	2	7	4.41	4.35	4.28	4.21	4.15	4.08	4.01	3.95	3.89	3.82
LB	2	17	3.76	3.70	3.63	3.57	3.53	3.55				
LB	3	23	3.52	3.50	3.47	3.44	3.41	3.38	3.35	3.32	3.29	3.26
LB	3	33	3.23	3.20	3.16							
LB	4	36	3.13	3.11	3.08	3.05	3.02	2.99	2.97	2.94	2.92	2.90
LB	4	46	2.87	2.85	2.83	2.81	2.79	2.77	2.75	2.73	2.71	2.69
LB	4	56	2.68	2.66	2.64	2.63	2.61	2.60	2.58	2.57	2.56	2.54
LB	4	66	2.53	2.52	2.51	2.50	2.49	2.47				
LB	5	72	2.44	2.41	2.38	2.35	2.32	2.29	2.27	2.24	2.21	2.19
LB	5	82	2.17	2.15	2.12	2.10	2.08	2.07	2.05	2.03	2.01	2.00
LB	5	92	1.98									
LB	6	93	1.97	1.96	1.95	1.94	1.93	1.93	1.92	1.91	1.91	1.91
LB	6	103	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.89
LB	6	113	1.89	1.89	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.91
LB	6	123	1.91	1.91	1.91	1.92	1.92	1.92	1.92	1.92		
LB	7	131	1.92	1.92	1.92	1.92	1.93	1.93	1.93	1.93	1.93	1.93
LB	7	141	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94	1.95	1.95
LB	7	151	1.95	1.96	1.99	2.12	2.64					

INTERMEDIATE REPORT
Effective BOD1
mg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	15.36	15.11	14.87	14.64	14.41	14.23				
LB	2	7	14.37	14.51	14.65	14.79	14.93	15.06	15.20	15.33	15.46	15.59
LB	2	17	15.72	15.85	15.97	16.10	16.23	16.39				
LB	3	23	16.56	16.72	16.88	17.04	17.20	17.35	17.51	17.66	17.82	17.97
LB	3	33	18.12	18.26	18.36							
LB	4	36	18.29	18.23	18.16	18.10	18.03	17.97	17.90	17.84	17.78	17.72
LB	4	46	17.66	17.59	17.53	17.47	17.41	17.35	17.29	17.24	17.18	17.12
LB	4	56	17.06	17.00	16.95	16.89	16.84	16.78	16.73	16.67	16.62	16.56
LB	4	66	16.51	16.46	16.40	16.35	16.30	16.24				
LB	5	72	16.13	16.02	15.91	15.80	15.69	15.58	15.48	15.37	15.27	15.17
LB	5	82	15.06	14.96	14.86	14.76	14.66	14.56	14.47	14.37	14.27	14.18
LB	5	92	14.09									
LB	6	93	14.00	13.92	13.84	13.76	13.68	13.60	13.52	13.44	13.37	13.29
LB	6	103	13.22	13.14	13.07	12.99	12.92	12.85	12.78	12.70	12.63	12.56
LB	6	113	12.49	12.42	12.36	12.29	12.22	12.15	12.09	12.02	11.95	11.89
LB	6	123	11.82	11.76	11.70	11.63	11.57	11.51	11.44	11.38		
LB	7	131	11.32	11.27	11.21	11.16	11.11	11.05	11.00	10.95	10.89	10.84
LB	7	141	10.79	10.74	10.69	10.64	10.59	10.54	10.49	10.44	10.39	10.34
LB	7	151	10.29	10.22	10.07	9.62	7.91					

INTERMEDIATE REPORT
Biochemical Oxygen Demand
mg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	15.36	15.11	14.87	14.64	14.41	14.23				
LB	2	7	14.37	14.51	14.65	14.79	14.93	15.06	15.20	15.33	15.46	15.59
LB	2	17	15.72	15.85	15.97	16.10	16.23	16.39				
LB	3	23	16.56	16.72	16.88	17.04	17.20	17.35	17.51	17.66	17.82	17.97
LB	3	33	18.12	18.26	18.36							
LB	4	36	18.29	18.23	18.16	18.10	18.03	17.97	17.90	17.84	17.78	17.72
LB	4	46	17.66	17.59	17.53	17.47	17.41	17.35	17.29	17.24	17.18	17.12
LB	4	56	17.06	17.00	16.95	16.89	16.84	16.78	16.73	16.67	16.62	16.56
LB	4	66	16.51	16.46	16.40	16.35	16.30	16.24				
LB	5	72	16.13	16.02	15.91	15.80	15.69	15.58	15.48	15.37	15.27	15.17
LB	5	82	15.06	14.96	14.86	14.76	14.66	14.56	14.47	14.37	14.27	14.18
LB	5	92	14.09									
LB	6	93	14.00	13.92	13.84	13.76	13.68	13.60	13.52	13.44	13.37	13.29
LB	6	103	13.22	13.14	13.07	12.99	12.92	12.85	12.78	12.70	12.63	12.56
LB	6	113	12.49	12.42	12.36	12.29	12.22	12.15	12.09	12.02	11.95	11.89
LB	6	123	11.82	11.76	11.70	11.63	11.57	11.51	11.44	11.38		
LB	7	131	11.32	11.27	11.21	11.16	11.11	11.05	11.00	10.95	10.89	10.84
LB	7	141	10.79	10.74	10.69	10.64	10.59	10.54	10.49	10.44	10.39	10.34
LB	7	151	10.29	10.22	10.07	9.62	7.91					

INTERMEDIATE REPORT
Biochemical Oxygen Demand #2

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU

mg/L WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	3.68	3.74	3.81	3.87	3.93	3.98				
LB	2	7	4.01	4.03	4.06	4.08	4.11	4.14	4.16	4.19	4.21	4.24
LB	2	17	4.26	4.29	4.31	4.33	4.35	4.34				
LB	3	23	4.38	4.42	4.46	4.50	4.55	4.59	4.63	4.67	4.71	4.75
LB	3	33	4.79	4.82	4.85							
LB	4	36	4.83	4.82	4.80	4.78	4.76	4.75	4.73	4.71	4.70	4.68
LB	4	46	4.67	4.65	4.63	4.62	4.60	4.59	4.57	4.55	4.54	4.52
LB	4	56	4.51	4.49	4.48	4.46	4.45	4.43	4.42	4.40	4.39	4.37
LB	4	66	4.36	4.34	4.33	4.31	4.30	4.29				
LB	5	72	4.28	4.27	4.26	4.26	4.25	4.24	4.23	4.23	4.22	4.21
LB	5	82	4.20	4.19	4.19	4.18	4.17	4.17	4.16	4.15	4.14	4.13
LB	5	92	4.12									
LB	6	93	4.08	4.05	4.01	3.98	3.94	3.90	3.87	3.84	3.80	3.77
LB	6	103	3.74	3.70	3.67	3.64	3.61	3.58	3.55	3.52	3.49	3.46
LB	6	113	3.43	3.40	3.37	3.34	3.32	3.29	3.26	3.23	3.21	3.18
LB	6	123	3.16	3.13	3.11	3.08	3.06	3.03	3.01	2.98		
LB	7	131	2.96	2.94	2.93	2.91	2.89	2.87	2.85	2.83	2.81	2.80
LB	7	141	2.78	2.76	2.74	2.73	2.71	2.69	2.68	2.66	2.65	2.63
LB	7	151	2.61	2.59	2.53	2.33	1.57					

INTERMEDIATE REPORT
Effective BOD2 WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
mg/L WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	3.68	3.74	3.81	3.87	3.93	3.98				
LB	2	7	4.01	4.03	4.06	4.08	4.11	4.14	4.16	4.19	4.21	4.24
LB	2	17	4.26	4.29	4.31	4.33	4.35	4.34				
LB	3	23	4.38	4.42	4.46	4.50	4.55	4.59	4.63	4.67	4.71	4.75
LB	3	33	4.79	4.82	4.85							
LB	4	36	4.83	4.82	4.80	4.78	4.76	4.75	4.73	4.71	4.70	4.68
LB	4	46	4.67	4.65	4.63	4.62	4.60	4.59	4.57	4.55	4.54	4.52
LB	4	56	4.51	4.49	4.48	4.46	4.45	4.43	4.42	4.40	4.39	4.37
LB	4	66	4.36	4.34	4.33	4.31	4.30	4.29				
LB	5	72	4.28	4.27	4.26	4.26	4.25	4.24	4.23	4.23	4.22	4.21
LB	5	82	4.20	4.19	4.19	4.18	4.17	4.17	4.16	4.15	4.14	4.13
LB	5	92	4.12									
LB	6	93	4.08	4.05	4.01	3.98	3.94	3.90	3.87	3.84	3.80	3.77
LB	6	103	3.74	3.70	3.67	3.64	3.61	3.58	3.55	3.52	3.49	3.46
LB	6	113	3.43	3.40	3.37	3.34	3.32	3.29	3.26	3.23	3.21	3.18
LB	6	123	3.16	3.13	3.11	3.08	3.06	3.03	3.01	2.98		
LB	7	131	2.96	2.94	2.93	2.91	2.89	2.87	2.85	2.83	2.81	2.80
LB	7	141	2.78	2.76	2.74	2.73	2.71	2.69	2.68	2.66	2.65	2.63
LB	7	151	2.61	2.59	2.53	2.33	1.57					

INTERMEDIATE REPORT

Nitrogenous Oxygen Demand
mg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	3.58	3.58	3.59	3.59	3.60	3.61				
LB	2	7	3.65	3.69	3.73	3.77	3.81	3.85	3.89	3.92	3.96	4.00
LB	2	17	4.04	4.07	4.11	4.15	4.18	4.22				
LB	3	23	4.29	4.36	4.42	4.49	4.56	4.62	4.69	4.76	4.82	4.89
LB	3	33	4.95	5.01	5.05							
LB	4	36	5.03	5.01	4.98	4.96	4.94	4.91	4.89	4.87	4.84	4.82
LB	4	46	4.80	4.78	4.75	4.73	4.71	4.69	4.67	4.65	4.62	4.60
LB	4	56	4.58	4.56	4.54	4.52	4.50	4.48	4.46	4.44	4.42	4.40
LB	4	66	4.38	4.36	4.34	4.32	4.30	4.28				
LB	5	72	4.26	4.25	4.23	4.21	4.20	4.18	4.16	4.15	4.13	4.11
LB	5	82	4.10	4.08	4.07	4.05	4.04	4.02	4.01	3.99	3.98	3.96
LB	5	92	3.94									
LB	6	93	3.92	3.89	3.87	3.84	3.82	3.79	3.77	3.74	3.72	3.70
LB	6	103	3.67	3.65	3.63	3.60	3.58	3.56	3.54	3.51	3.49	3.47
LB	6	113	3.45	3.43	3.41	3.38	3.36	3.34	3.32	3.30	3.28	3.26
LB	6	123	3.24	3.22	3.20	3.18	3.16	3.14	3.12	3.10		
LB	7	131	3.08	3.07	3.06	3.04	3.03	3.02	3.01	2.99	2.98	2.97
LB	7	141	2.95	2.94	2.93	2.92	2.91	2.89	2.88	2.87	2.86	2.84
LB	7	151	2.83	2.82	2.80	2.77	2.69					

INTERMEDIATE REPORT
Chlorophyll a
µg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	92.20	92.20	92.20	92.20	92.20	92.20				
LB	2	7	92.20	92.20	92.20	92.20	92.20	92.20	92.20	92.20	92.20	92.20
LB	2	17	92.20	92.20	92.20	92.20	92.20	92.20				
LB	3	23	92.20	92.20	92.20	92.20	92.20	92.20	92.20	92.20	92.20	92.20
LB	3	33	92.20	92.20	92.20							
LB	4	36	92.08	91.96	91.83	91.71	91.59	91.47	91.34	91.22	91.10	90.98
LB	4	46	90.86	90.73	90.61	90.49	90.37	90.24	90.12	90.00	89.88	89.76
LB	4	56	89.63	89.51	89.39	89.27	89.14	89.02	88.90	88.78	88.66	88.53
LB	4	66	88.41	88.29	88.17	88.04	87.92	87.80				
LB	5	72	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80
LB	5	82	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80
LB	5	92	87.80									
LB	6	93	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80
LB	6	103	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80
LB	6	113	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80
LB	6	123	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80		
LB	7	131	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80
LB	7	141	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80	87.80
LB	7	151	87.80	87.80	87.80	87.80	87.80					

INTERMEDIATE REPORT
Temperature
deg C

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	28.50	28.50	28.50	28.50	28.50	28.50				
LB	2	7	28.52	28.54	28.56	28.58	28.59	28.61	28.63	28.65	28.67	28.69
LB	2	17	28.71	28.72	28.74	28.76	28.78	28.80				
LB	3	23	28.82	28.83	28.85	28.86	28.88	28.89	28.91	28.92	28.94	28.95
LB	3	33	28.97	28.98	29.00							
LB	4	36	29.00	28.99	28.99	28.99	28.99	28.98	28.98	28.98	28.98	28.97
LB	4	46	28.97	28.97	28.96	28.96	28.96	28.96	28.95	28.95	28.95	28.94
LB	4	56	28.94	28.94	28.94	28.93	28.93	28.93	28.92	28.92	28.92	28.92
LB	4	66	28.91	28.91	28.91	28.91	28.90	28.90				
LB	5	72	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90
LB	5	82	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90
LB	5	92	28.90									
LB	6	93	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90
LB	6	103	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90
LB	6	113	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90
LB	6	123	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.90		
LB	7	131	28.90	28.91	28.91	28.92	28.92	28.92	28.93	28.93	28.94	28.94
LB	7	141	28.94	28.95	28.95	28.96	28.96	28.96	28.97	28.97	28.98	28.98
LB	7	151	28.98	28.99	28.99	29.00	29.00					

INTERMEDIATE REPORT
Salinity
ppt

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.09	0.09	0.09	0.09	0.09	0.09				
LB	2	7	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	2	17	0.09	0.09	0.09	0.09	0.09	0.09				
LB	3	23	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	3	33	0.09	0.09	0.09							
LB	4	36	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	4	46	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	4	56	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	4	66	0.09	0.09	0.09	0.09	0.09	0.09				
LB	5	72	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10
LB	5	82	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12
LB	5	92	0.12									
LB	6	93	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13
LB	6	103	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
LB	6	113	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14
LB	6	123	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14		
LB	7	131	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
LB	7	141	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13

LB	7	151	0.13	0.13	0.13	0.13	0.13

INTERMEDIATE REPORT
CONDUCTIVITY
MG/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	193.00	193.00	193.01	193.02	193.12	193.55				
LB	2	7	193.55	193.55	193.55	193.55	193.55	193.55	193.55	193.55	193.55	193.55
LB	2	17	193.55	193.55	193.54	193.52	193.40	192.88				
LB	3	23	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88
LB	3	33	192.88	192.88	192.88							
LB	4	36	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88
LB	4	46	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88
LB	4	56	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88
LB	4	66	192.88	192.88	192.88	192.88	192.88	192.88				
LB	5	72	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88
LB	5	82	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88
LB	5	92	192.88									
LB	6	93	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88
LB	6	103	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88
LB	6	113	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88
LB	6	123	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88		
LB	7	131	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88
LB	7	141	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.88	192.89	192.91
LB	7	151	192.99	193.32	194.68	200.29	223.40					

INTERMEDIATE REPORT
CHLORIDES
MG/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	13.40	13.40	13.40	13.40	13.41	13.43				
LB	2	7	13.43	13.43	13.43	13.43	13.43	13.43	13.43	13.43	13.43	13.43
LB	2	17	13.43	13.43	13.43	13.43	13.43	13.44				
LB	3	23	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44
LB	3	33	13.44	13.44	13.44							
LB	4	36	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44
LB	4	46	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44
LB	4	56	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44
LB	4	66	13.44	13.44	13.44	13.44	13.44	13.44				
LB	5	72	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44
LB	5	82	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44
LB	5	92	13.44									
LB	6	93	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44
LB	6	103	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44
LB	6	113	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44
LB	6	123	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44		
LB	7	131	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44

LB	7	141	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44	13.44
LB	7	151	13.46	13.55	13.88	15.25	20.89					

INTERMEDIATE REPORT
River Distance
km

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	15.	15.	15.	15.	15.	15.				
LB	2	7	15.	15.	15.	14.	14.	14.	14.	14.	14.	14.
LB	2	17	14.	14.	14.	13.	13.	13.				
LB	3	23	13.	13.	13.	13.	13.	13.	13.	12.	12.	12.
LB	3	33	12.	12.	12.							
LB	4	36	12.	12.	12.	12.	11.	11.	11.	11.	11.	11.
LB	4	46	11.	11.	11.	11.	10.	10.	10.	10.	10.	10.
LB	4	56	10.	10.	10.	10.	9.	9.	9.	9.	9.	9.
LB	4	66	9.	9.	9.	9.	8.	8.				
LB	5	72	8.	8.	8.	8.	8.	8.	8.	8.	7.	7.
LB	5	82	7.	7.	7.	7.	7.	7.	7.	7.	6.	6.
LB	5	92	6.									
LB	6	93	6.	6.	6.	6.	6.	6.	6.	6.	5.	5.
LB	6	103	5.	5.	5.	5.	5.	5.	5.	5.	4.	4.
LB	6	113	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.
LB	6	123	3.	3.	3.	3.	3.	3.	3.	3.		
LB	7	131	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
LB	7	141	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	7	151	0.	0.	0.	0.	0.					

INTERMEDIATE REPORT
Flow
m^3/s

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	3.2	3.2	3.2	3.2	3.2	3.2				
LB	2	7	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
LB	2	17	3.2	3.2	3.2	3.2	3.2	3.5				
LB	3	23	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
LB	3	33	3.5	3.5	3.5							
LB	4	36	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
LB	4	46	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
LB	4	56	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
LB	4	66	3.5	3.5	3.5	3.5	3.5	3.5				
LB	5	72	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
LB	5	82	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
LB	5	92	3.5									
LB	6	93	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
LB	6	103	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
LB	6	113	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

LB	6	123	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5		
LB	7	131	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
LB	7	141	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
LB	7	151	3.5	3.5	3.5	3.5	3.5					

INTERMEDIATE REPORT
Dispersion
m^2/s

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	1.3	1.3	1.3	1.3	1.3	1.3				
LB	2	7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	2	17	1.3	1.3	1.3	1.3	1.3	1.4				
LB	3	23	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
LB	3	33	1.9	1.9	1.9							
LB	4	36	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
LB	4	46	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
LB	4	56	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
LB	4	66	1.9	1.9	1.9	1.9	1.9	1.9				
LB	5	72	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
LB	5	82	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
LB	5	92	1.5									
LB	6	93	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
LB	6	103	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
LB	6	113	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
LB	6	123	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
LB	7	131	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
LB	7	141	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
LB	7	151	1.8	1.8	1.8	1.8	1.8					

INTERMEDIATE REPORT
Depth
m

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	1.2	1.2	1.2	1.2	1.2	1.2				
LB	2	7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	2	17	1.2	1.2	1.2	1.2	1.2	1.2				
LB	3	23	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	3	33	1.3	1.3	1.3							
LB	4	36	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	4	46	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	4	56	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	4	66	1.3	1.3	1.3	1.3	1.3	1.3				
LB	5	72	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	5	82	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	5	92	1.0									
LB	6	93	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

LB	6	103	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	6	113	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	6	123	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LB	7	131	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
LB	7	141	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
LB	7	151	1.5	1.5	1.5	1.5	1.5					

INTERMEDIATE REPORT
Width
m

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	55.5	55.5	55.5	55.5	55.5	55.5				
LB	2	7	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
LB	2	17	55.5	55.5	55.5	55.5	55.5	55.5				
LB	3	23	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
LB	3	33	39.6	39.6	39.6							
LB	4	36	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
LB	4	46	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
LB	4	56	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
LB	4	66	39.6	39.6	39.6	39.6	39.6	39.6				
LB	5	72	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	5	82	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	5	92	52.7									
LB	6	93	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	6	103	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	6	113	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	6	123	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7		
LB	7	131	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
LB	7	141	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
LB	7	151	40.5	40.5	40.5	40.5	40.5					

INTERMEDIATE REPORT
Advective Velocity
m/s

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.0	0.0	0.0	0.0	0.0	0.0				
LB	2	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	2	17	0.0	0.0	0.0	0.0	0.0	0.1				
LB	3	23	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	3	33	0.1	0.1	0.1							
LB	4	36	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	4	46	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	4	56	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	4	66	0.1	0.1	0.1	0.1	0.1	0.1				
LB	5	72	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	5	82	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

LB	5	92	0.1									
LB	6	93	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	6	103	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	6	113	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	6	123	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
LB	7	131	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	7	141	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	7	151	0.1	0.1	0.1	0.1	0.1					

INTERMEDIATE REPORT
Mean Velocity
m/s

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.0	0.0	0.0	0.0	0.0	0.0				
LB	2	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	2	17	0.0	0.0	0.0	0.0	0.0	0.1				
LB	3	23	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	3	33	0.1	0.1	0.1							
LB	4	36	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	4	46	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	4	56	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	4	66	0.1	0.1	0.1	0.1	0.1	0.1				
LB	5	72	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	5	82	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	5	92	0.1									
LB	6	93	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	6	103	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	6	113	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	6	123	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
LB	7	131	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	7	141	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
LB	7	151	0.1	0.1	0.1	0.1	0.1					

INTERMEDIATE REPORT
Cross-Sectional Area
m^2

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	67.7	67.7	67.7	67.7	67.7	67.7				
LB	2	7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
LB	2	17	67.7	67.7	67.7	67.7	67.7	67.7				
LB	3	23	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
LB	3	33	50.3	50.3	50.3							
LB	4	36	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
LB	4	46	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
LB	4	56	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
LB	4	66	50.3	50.3	50.3	50.3	50.3	50.3				

LB	5	72	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	5	82	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	5	92	55.3									
LB	6	93	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	6	103	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	6	113	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	6	123	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3		
LB	7	131	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
LB	7	141	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
LB	7	151	60.4	60.4	60.4	60.4	60.4					

INTERMEDIATE REPORT
Reaeration Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.821	0.821	0.821	0.821	0.821	0.823				
LB	2	7	0.823	0.823	0.823	0.824	0.824	0.824	0.824	0.825	0.825	0.825
LB	2	17	0.826	0.826	0.826	0.826	0.827	0.843				
LB	3	23	0.883	0.883	0.883	0.883	0.884	0.884	0.884	0.884	0.885	0.885
LB	3	33	0.885	0.885	0.885							
LB	4	36	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885
LB	4	46	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885
LB	4	56	0.885	0.884	0.884	0.884	0.884	0.884	0.884	0.884	0.884	0.884
LB	4	66	0.884	0.884	0.884	0.884	0.884	0.884				
LB	5	72	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021
LB	5	82	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021
LB	5	92	1.021									
LB	6	93	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021
LB	6	103	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021
LB	6	113	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021
LB	6	123	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021		
LB	7	131	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729
LB	7	141	0.729	0.729	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730
LB	7	151	0.730	0.730	0.730	0.730	0.730					

INTERMEDIATE REPORT
BOD1 Decay Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.	0.	0.	0.	0.	0.				
LB	2	7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	2	17	0.	0.	0.	0.	0.	0.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	82	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	92	0.									
LB	6	93	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	103	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	113	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	123	0.	0.	0.	0.	0.	0.	0.	0.		
LB	7	131	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	141	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	151	0.	0.	0.	0.	0.					

INTERMEDIATE REPORT
BOD1 Settling Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.	0.	0.	0.	0.	0.				
LB	2	7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	2	17	0.	0.	0.	0.	0.	0.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	82	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	92	0.									
LB	6	93	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	103	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	113	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	123	0.	0.	0.	0.	0.	0.	0.	0.		
LB	7	131	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	141	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	151	0.	0.	0.	0.	0.					

INTERMEDIATE REPORT
BOD2 Decay Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.	0.	0.	0.	0.	0.				
LB	2	7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	2	17	0.	0.	0.	0.	0.	0.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	82	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	92	0.									
LB	6	93	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	103	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	113	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	123	0.	0.	0.	0.	0.	0.	0.	0.		
LB	7	131	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	141	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	151	0.	0.	0.	0.	0.					

INTERMEDIATE REPORT
BOD2 Settling Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.	0.	0.	0.	0.	0.				
LB	2	7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	2	17	0.	0.	0.	0.	0.	0.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	82	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	92	0.									
LB	6	93	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	6	103	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	6	113	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	6	123	1.	1.	1.	1.	1.	1.	1.	1.		
LB	7	131	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	7	141	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	7	151	1.	1.	1.	1.	1.					

INTERMEDIATE REPORT
Sediment Oxygen Demand
$g/m^2/d$

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	4.	4.	4.	4.	4.	4.				
LB	2	7	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.
LB	2	17	3.	3.	3.	3.	3.	3.				
LB	3	23	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.

LB	3	33	2.	2.	2.							
LB	4	36	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
LB	4	46	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
LB	4	56	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
LB	4	66	2.	2.	2.	2.	2.	2.				
LB	5	72	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.
LB	5	82	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.
LB	5	92	3.									
LB	6	93	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.
LB	6	103	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.
LB	6	113	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.
LB	6	123	3.	3.	3.	3.	3.	3.	3.	3.		
LB	7	131	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.
LB	7	141	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.
LB	7	151	3.	3.	3.	3.	3.					

CAPSULE SUMMARY FOR BAYOU L'EAU BLEU

IOR	REACH	DIST km	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	DO mg/L	BOD1 mg/L	BOD2 mg/L	NBOD mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	ORG-P mg/L	PO4-P mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
		HDWTR	3.217	113.600	28.80	0.1	5.12	15.56	3.63	3.58	0.00	0.00	3.58	0.00	0.00	108.0													
1	LB 1	15.400	3.217	113.600	28.50	0.1	5.02	15.36	3.68	3.58	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047508	0.047508	7.755	0.821	0.18	0.49	0.05	0.24	0.00	4.27
2	LB 1	15.300	3.217	113.600	28.50	0.1	4.91	15.11	3.74	3.58	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047508	0.047508	7.755	0.821	0.18	0.49	0.05	0.24	0.00	4.27
3	LB 1	15.200	3.217	113.600	28.50	0.1	4.80	14.87	3.81	3.59	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047508	0.047508	7.755	0.821	0.18	0.49	0.05	0.24	0.00	4.27
4	LB 1	15.100	3.217	113.600	28.50	0.1	4.69	14.64	3.87	3.59	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047508	0.047508	7.755	0.821	0.18	0.49	0.05	0.24	0.00	4.27
5	LB 1	15.000	3.217	113.600	28.50	0.1	4.58	14.41	3.93	3.60	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047508	0.047508	7.755	0.821	0.18	0.49	0.05	0.24	0.00	4.27
	WASTELOAD # 006 (TOM FORET CANAL) ENTERS HERE																												
6	LB 1	14.900	3.238	114.345	28.50	0.1	4.48	14.23	3.98	3.61	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.755	0.823	0.18	0.49	0.05	0.24	0.00	4.27
7	LB 2	14.800	3.238	114.345	28.52	0.1	4.41	14.37	4.01	3.65	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.753	0.823	0.18	0.24	0.05	0.24	0.00	2.56
8	LB 2	14.700	3.238	114.345	28.54	0.1	4.35	14.51	4.03	3.69	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.749	0.823	0.18	0.24	0.05	0.24	0.00	2.57
9	LB 2	14.600	3.238	114.345	28.56	0.1	4.28	14.65	4.06	3.73	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.747	0.823	0.18	0.24	0.05	0.24	0.00	2.57
10	LB 2	14.500	3.238	114.345	28.58	0.1	4.21	14.79	4.08	3.77	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.745	0.824	0.18	0.25	0.05	0.25	0.00	2.57
11	LB 2	14.400	3.238	114.345	28.59	0.1	4.15	14.93	4.11	3.81	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.742	0.824	0.18	0.25	0.05	0.25	0.00	2.58
12	LB 2	14.300	3.238	114.345	28.61	0.1	4.08	15.06	4.14	3.85	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.739	0.824	0.18	0.25	0.05	0.25	0.00	2.58
13	LB 2	14.200	3.238	114.345	28.63	0.1	4.01	15.20	4.16	3.89	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.737	0.824	0.18	0.25	0.06	0.25	0.00	2.58
14	LB 2	14.100	3.238	114.345	28.65	0.1	3.95	15.33	4.19	3.92	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.734	0.825	0.18	0.25	0.06	0.25	0.00	2.59
15	LB 2	14.000	3.238	114.345	28.67	0.1	3.89	15.46	4.21	3.96	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.732	0.825	0.18	0.25	0.06	0.25	0.00	2.59
16	LB 2	13.900	3.238	114.345	28.69	0.1	3.82	15.59	4.24	4.00	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.730	0.825	0.18	0.25	0.06	0.25	0.00	2.59
17	LB 2	13.800	3.238	114.345	28.71	0.1	3.76	15.72	4.26	4.04	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.727	0.826	0.18	0.25	0.06	0.25	0.00	2.60
18	LB 2	13.700	3.238	114.345	28.72	0.1	3.70	15.85	4.29	4.07	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.724	0.826	0.18	0.25	0.06	0.25	0.00	2.60
19	LB 2	13.600	3.238	114.345	28.74	0.1	3.63	15.97	4.31	4.11	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.722	0.826	0.18	0.25	0.06	0.25	0.00	2.60
20	LB 2	13.500	3.238	114.345	28.76	0.1	3.57	16.10	4.33	4.15	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.720	0.826	0.18	0.25	0.06	0.25	0.00	2.60
21	LB 2	13.400	3.238	114.345	28.78	0.1	3.53	16.23	4.35	4.18	0.00	0.00	0.00	0.00	0.00	92.2	1.3	1.22	55.5	0.047820	0.047820	7.717	0.827	0.18	0.25	0.06	0.25	0.00	2.61
	WASTELOAD # 022 (BARGE CANAL) ENTERS HERE																												
22	LB 2	13.300	3.480	122.894	28.80	0.1	3.55	16.39	4.34	4.22	0.00	0.00	0.00	0.00	0.00	92.2	1.4	1.22	55.5	0.051396	0.051396	7.714	0.843	0.18	0.25	0.06	0.25	0.00	2.61
23	LB 3	13.200	3.480	122.894	28.82	0.1	3.52	16.56	4.38	4.29	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.712	0.883	0.18	0.25	0.06	0.25	0.00	1.74
24	LB 3	13.100	3.480	122.894	28.83	0.1	3.50	16.72	4.42	4.36	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.710	0.883	0.18	0.25	0.06	0.25	0.00	1.74
25	LB 3	13.000	3.480	122.894	28.85	0.1	3.47	16.88	4.46	4.42	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.708	0.883	0.18	0.25	0.06	0.25	0.00	1.75
26	LB 3	12.900	3.480	122.894	28.86	0.1	3.44	17.04	4.50	4.49	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.706	0.883	0.18	0.25	0.06	0.25	0.00	1.75
27	LB 3	12.800	3.480	122.894	28.88	0.1	3.41	17.20	4.55	4.56	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.704	0.884	0.18	0.25	0.06	0.25	0.00	1.75
28	LB 3	12.700	3.480	122.894	28.89	0.1	3.38	17.35	4.59	4.62	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.702	0.884	0.18	0.25	0.06	0.25	0.00	1.75
29	LB 3	12.600	3.480	122.894	28.91	0.1	3.35	17.51	4.63	4.69	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.700	0.884	0.18	0.25	0.06	0.25	0.00	1.75
30	LB 3	12.500	3.480	122.894	28.92	0.1	3.32	17.66	4.67	4.76	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.697	0.884	0.18	0.25	0.06	0.25	0.00	1.75
31	LB 3	12.400	3.480	122.894	28.94	0.1	3.29	17.82	4.71	4.82	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.695	0.885	0.18	0.25	0.06	0.25	0.00	1.76
32	LB 3	12.300	3.480	122.894	28.95	0.1	3.26	17.97	4.75	4.89	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.693	0.885	0.18	0.25	0.06	0.25	0.00	1.76
33	LB 3	12.200	3.480	122.894	28.97	0.1	3.23	18.12	4.79	4.95	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.691	0.885	0.18	0.25	0.06	0.25	0.00	1.76
34	LB 3	12.100	3.480	122.894	28.98	0.1	3.20	18.26	4.82	5.01	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.689	0.885	0.18	0.25	0.06	0.25	0.00	1.76
35	LB 3	12.000	3.480	122.894	29.00	0.1	3.16	18.36	4.85	5.05	0.00	0.00	0.00	0.00	0.00	92.2	1.9	1.27	39.6	0.069196	0.069196	7.687	0.885	0.18	0.25	0.06	0.25	0.00	1.76
36	LB 4	11.900	3.480	122.894	29.00	0.1	3.13	18.29	4.83	5.03	0.00	0.00	0.00	0.00	0.00	92.1	1.9	1.27	39.6	0.069196	0.069196	7.687	0.885	0.18	0.25	0.06	0.25	0.00	1.76
37	LB 4	11.800	3.480	122.894	28.99	0.1	3.11	18.23	4.82	5.01	0.00	0.00	0.00	0.00	0.00	92.0	1.9	1.27	39.6	0.069196	0.069196	7.688	0.885	0.18	0.25	0.06	0.25	0.00	1.76
38	LB 4	11.700	3.480	122.894	28.99	0.1	3.08	18.16	4.80	4.98	0.00	0.00	0.00	0.00	0.00	91.8	1.9	1.27	39.6	0.069196	0.069196	7.688	0.885	0.18	0.25	0.06	0.25	0.00	1.76
39	LB 4	11.600	3.480	122.894	28.99	0.1	3.05	18.10	4.78	4.96	0.00	0.00	0.00	0.00	0.00	91.7	1.9	1.27	39.6	0.069196	0.069196	7.689	0.885	0.18	0.25	0.06	0.25	0.00	1.76
40	LB 4	11.500	3.480	122.894	28.99	0.1	3.02	18.03	4.76	4.94	0.00	0.00	0.00	0.00	0.00	91.6	1.9	1.27	39.6	0.069196	0.069196	7.689	0.885	0.18	0.25	0.06	0.25	0.00	1.76
41	LB 4	11.400	3.480	122.894	28.98	0.1	2.99	17.97	4.75	4.91	0.00	0.00	0.00	0.00	0.00	91.5	1.9	1.27	39.6	0.069196	0.069196	7.689	0.885	0.18	0.25	0.06	0.25	0.00	1.76
42	LB 4	11.300	3.480	122.894	28.98	0.1	2.97	17.90	4.73	4.89	0.00	0.00	0.00	0.00	0.00	91.3	1.9	1.27	39.6	0.069196	0.069196	7.690	0.885	0.18	0.25	0.06	0.25	0.00	1.76
43	LB 4	11.200	3.480	122.894	28.98	0.1	2.94	17.84	4.71	4.87	0.00	0.00	0.00	0.00	0.00	91.2	1.9	1.27	39.6	0.069196	0.069196	7.690	0.885	0.18	0.25	0.06	0.25	0.00	1.76
44	LB 4	11.100	3.480	122.894	28.98	0.1	2.92	17.78	4.70	4.84	0.00	0.00	0.00	0.00	0.00	91.1	1.9	1.27	39.6	0.069196	0.069196	7.691	0.885	0.18	0.25	0.06	0.25	0.00	1.76
45	LB 4	11.000	3.480	122.894	28.97	0.1	2.90	17.72	4.68	4.82	0.00	0.00	0.00	0.00	0.00	91.0	1.9	1.27	39.6	0.069196	0.069196	7.691	0.885	0.18	0.25	0.06	0.25	0.00	1.76
46	LB 4	10.900	3.480	122.894	28.97	0.1	2.87	17.66	4.67	4.80	0.00	0.00	0.00	0.00	0.00	90.9	1.9	1.27	39.6	0.069196	0.069196	7.691	0.885	0.18	0.25	0.06	0.25	0.00	1.76
47	LB 4	10.800	3.480	122.894	28.97	0.1	2.85	17.59	4.65	4.78	0.00	0.00	0.00	0.00	0.00	90.7	1.9	1.27	39.6	0.069196	0.069196	7.692	0.885	0.18	0.25	0.06	0.25	0.00	1.76
48	LB 4	10.700	3.480	122.894	28.96	0.1	2.83	17.53	4.63	4.75	0.00	0.00	0.00	0.00	0.00	90.6	1.9	1.27	39.6	0.069196	0.069196	7.692	0.885	0.18	0.25	0.06	0.25	0.00	1.76
49	LB 4	10.600	3.480	122.894	28.96	0.1	2.81	17.47	4.62	4.73	0.00	0.00	0.00	0.00	0.00	90.5	1.9	1.27	39.6	0.069196	0.069196	7.692	0.885	0.18	0.25	0.06	0.25	0.00	1.76
50	LB 4	10.500	3.480	122.894	28.96	0.1	2.79	17.41	4.60	4.71	0.00	0.00	0.00	0.00	0.00	90.4	1.9	1.27	39.6	0.069196	0.069196	7.692	0.885	0.18	0.25	0.06	0.25	0.00	1.76
51	LB 4	10.400	3.480	122.894	28.96	0.1	2.77	17.35	4.59	4.69	0.00	0.00	0.00	0.00	0.00	90.2	1.9	1.27	39.6	0.069196	0.069196	7.694	0.885	0.18	0.25	0.06	0.25	0.00	1.76
52	LB 4	10.300	3.480	122.894	28.95	0.1	2.75	17.29	4.57	4.67	0.00	0.00	0.00	0.00	0.00	90.1	1.9	1.27	39.6	0.069196	0.069196	7.694	0.885	0.18	0.25	0.06	0.25	0.00	1.76
53	LB 4	10.200	3.480	122.894	28.95	0.1	2.73	17.24	4.55	4.65	0.00	0.00	0.00	0.00	0.00	90.0	1.9	1.27	39.6	0.069196	0.069196	7.694	0.885	0.18	0.25	0.06	0.25	0.00	1.76
54	LB 4	10.100	3.480	122.894	28.95	0.1	2.71	17.18	4.54	4.62	0.00	0.00	0.00	0.00	0.00	89.9	1.9	1.27	39.6	0.069196	0.069196	7.694	0.885	0.18	0.25	0.06	0.25	0.00	1.76
55	LB 4	10.000	3.480	122.894	28.94	0.1	2.69	17.12	4.52	4.60	0.00	0.00	0.00	0.00	0.00	89.8	1.9	1.27	39.6	0.069196	0.069196	7.694	0.885	0.18	0.25	0.06	0.25	0.00	1.76
56	LB 4	9.900	3.480	122.894	28.94	0.1	2.68	17.06	4.51	4.58	0.00	0.00	0.00	0.00	0.00	89.6	1.9	1.27	39.6	0.069196	0.069196	7.695	0.885	0.18	0.25	0.06	0.25	0.00	1.76
57	LB 4	9.800	3.480	122.894	28.94	0.1	2.66	17.00	4.49	4.56	0.00	0.00	0.00	0.00	0.00	89.5	1.9	1.27	39.6	0.069196	0.069196	7.696	0.884	0.18	0.25	0.06	0.25	0.00	1.76
58	LB 4	9.700	3.480	122.894	28.94	0.1	2.64	16.95	4.48	4.54	0.00	0.00	0.00	0.00	0.00	89.4	1.9	1.27	39.6	0.069196	0.069196	7.696	0.884	0.18	0.25	0.06	0.25	0.00	1.76
59	LB 4	9.600	3.480	122.894	28.93	0.1	2.63	16.89	4.46	4.52	0.00	0.00	0.00	0.00	0.00	89.3	1.9	1.27	39.6	0.069196	0.069196	7.696	0.884	0.18	0.25	0.06	0.25	0.00	1.76
60	LB 4	9.500	3.480	122.894	28.93	0.1	2.61	16.84	4.45	4.50	0.00	0.00	0.00	0.00	0.00	89.1	1.9	1.27	39.6	0.069196	0.069196	7.696	0.884	0.18	0.25	0.06	0.25	0.00	1.75
61	LB 4	9.400	3.480	122.894	28.93	0.1	2.60	16.78	4.43	4.48	0.00	0.00	0.00	0.00	0.00	89.0	1.9	1.27	39.6	0.069196	0.069196	7.697	0.884	0.18	0.25	0.06	0.25	0.00	1.75
62	LB 4	9.300	3.480	122.894	28.92	0.1	2.58	16.73	4.42	4.46	0.00	0.00	0.00	0.00	0.00	88.9	1.9	1.27	39.6	0.069196	0.069196	7.698	0.884	0.18	0.25	0.06	0.25	0.00	1.75
63	LB 4	9.200	3.480	122.894	28.92	0.1	2.57	16.67	4.40	4.44	0.00	0.00	0.00	0.00	0.00	88.8	1.9	1.27	39.6	0.069196	0.069196	7.698	0.884	0.18	0.25	0.06	0.25	0.00	1.75
64	LB 4	9.100	3.480	122.894	28.92	0.1	2.56	16.62	4.39	4.42	0.00	0.00	0.00	0.00	0.00	88.7	1.9	1.27	39.6	0.069196	0.069196	7.698	0.884	0.18	0.25	0.06	0.25	0.00	1.75
65	LB 4	9.000	3.480	122.894	28.92	0.1	2.54	16.56	4.37	4.40	0.00	0.00	0.00	0.00	0.00	88.5	1.9	1.27	39.6	0.069196	0.069196	7.698	0.884	0.18	0.25	0.06	0.25	0.00	1.75
66	LB 4	8.900	3.480	122.894	28.91	0.1	2.53	16.51	4.36	4.38	0.00	0.00	0.00	0.00	0.00	88.4	1.9	1.27	39.6	0.069196	0.069196	7.699	0.884	0.18	0.25	0.06	0.25	0.00	1.75
67	LB 4	8.800	3.480	122.894	28.91	0.1	2.52	16.46	4.34	4.36	0.00	0.00	0.00	0.00	0.00	88.3	1.9	1.27	39.6	0.069196	0.069196	7.699	0.884	0.18	0.25	0.06	0.25	0.00	1.75
68	LB 4	8.700	3.480	122.894	28.91	0.1	2.51	16.40	4.33	4.34	0.00	0.00	0.00	0.00	0.00	88.2	1.9	1.27	39.6	0.069196	0.069196	7.699	0.884	0.18	0.25	0.06	0.25	0.00	1.75
69	LB 4	8.600	3.480	122.894	28.91	0.1	2.50	16.35	4.31	4.32	0.00	0.00	0.00	0.00	0.00	88.0	1.9	1.27	39.6	0.069196	0.069196	7.700	0.884	0.18	0.25	0.06	0.25	0.00	1.75
70	LB 4	8.500	3.480	122.894	28.90	0.1	2.49	16.30	4.30	4.30	0.00	0.00	0.00	0.00	0.00	87.9	1.9	1.27	39.6	0.069196	0.069196	7.700	0.884	0.18	0.25	0.06	0.25	0.00	1.75
71	LB 4	8.400	3.480	122.894	28.90	0.1	2.47	16.24	4.29	4.28	0.00	0.00	0.00	0.00	0.00	87.8	1.9	1.27	39.6	0.069196	0.069196	7.701	0.884	0.18	0.25	0.06	0.25	0.00	1.75

CAPSULE SUMMARY FOR BAYOU L'EAU BLEU

IOR	REACH	DIST km	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	DO mg/L	BOD1 mg/L	BOD2 mg/L	NBOD mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	ORG-P mg/L	PO4-P mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
72	LB 5	8.300	3.480	122.894	28.90	0.1	2.44	16.13	4.28	4.26	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
73	LB 5	8.200	3.480	122.894	28.90	0.1	2.41	16.02	4.27	4.25	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
74	LB 5	8.100	3.480	122.894	28.90	0.1	2.38	15.91	4.26	4.23	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
75	LB 5	8.000	3.480	122.894	28.90	0.1	2.35	15.80	4.26	4.21	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
76	LB 5	7.900	3.480	122.894	28.90	0.1	2.32	15.69	4.25	4.20	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
77	LB 5	7.800	3.480	122.894	28.90	0.1	2.29	15.58	4.24	4.18	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
78	LB 5	7.700	3.480	122.894	28.90	0.1	2.27	15.48	4.23	4.16	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
79	LB 5	7.600	3.480	122.894	28.90	0.1	2.24	15.37	4.23	4.15	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
80	LB 5	7.500	3.480	122.894	28.90	0.1	2.21	15.27	4.22	4.13	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
81	LB 5	7.400	3.480	122.894	28.90	0.1	2.19	15.17	4.21	4.11	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
82	LB 5	7.300	3.480	122.894	28.90	0.1	2.17	15.06	4.20	4.10	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
83	LB 5	7.200	3.480	122.894	28.90	0.1	2.15	14.96	4.19	4.08	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
84	LB 5	7.100	3.480	122.894	28.90	0.1	2.12	14.86	4.19	4.07	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
85	LB 5	7.000	3.480	122.894	28.90	0.1	2.10	14.76	4.18	4.05	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
86	LB 5	6.900	3.480	122.894	28.90	0.1	2.08	14.66	4.17	4.04	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
87	LB 5	6.800	3.480	122.894	28.90	0.1	2.07	14.56	4.17	4.02	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.700	1.021	0.18	0.25	0.06	0.25	0.00	3.50
88	LB 5	6.700	3.480	122.894	28.90	0.1	2.05	14.47	4.16	4.01	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.18	0.25	0.06	0.25	0.00	3.50
89	LB 5	6.600	3.480	122.894	28.90	0.1	2.03	14.37	4.15	3.99	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.18	0.25	0.06	0.25	0.00	3.50
90	LB 5	6.500	3.480	122.894	28.90	0.1	2.01	14.27	4.14	3.98	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.18	0.25	0.06	0.25	0.00	3.50
91	LB 5	6.400	3.480	122.894	28.90	0.1	2.00	14.18	4.13	3.96	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.18	0.25	0.06	0.25	0.00	3.50
92	LB 5	6.300	3.480	122.894	28.90	0.1	1.98	14.09	4.12	3.94	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.18	0.25	0.06	0.25	0.00	3.47
93	LB 6	6.200	3.480	122.894	28.90	0.1	1.97	14.00	4.08	3.92	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.18	0.25	0.05	0.62	0.00	3.45
94	LB 6	6.100	3.480	122.894	28.90	0.1	1.96	13.92	4.05	3.89	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.18	0.25	0.05	0.62	0.00	3.43
95	LB 6	6.000	3.480	122.894	28.90	0.1	1.95	13.84	4.01	3.87	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.18	0.25	0.05	0.62	0.00	3.41
96	LB 6	5.900	3.480	122.894	28.90	0.1	1.94	13.76	3.98	3.84	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.18	0.25	0.05	0.62	0.00	3.40
97	LB 6	5.800	3.480	122.894	28.90	0.1	1.93	13.68	3.94	3.82	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.38
98	LB 6	5.700	3.480	122.894	28.90	0.1	1.93	13.60	3.90	3.79	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.37
99	LB 6	5.600	3.480	122.894	28.90	0.1	1.92	13.52	3.87	3.77	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.36
100	LB 6	5.500	3.480	122.894	28.90	0.1	1.91	13.44	3.84	3.74	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.35
101	LB 6	5.400	3.480	122.894	28.90	0.1	1.91	13.37	3.80	3.72	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.34
102	LB 6	5.300	3.480	122.894	28.90	0.1	1.91	13.29	3.77	3.70	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.34
103	LB 6	5.200	3.480	122.894	28.90	0.1	1.90	13.22	3.74	3.67	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.33
104	LB 6	5.100	3.480	122.894	28.90	0.1	1.90	13.14	3.70	3.65	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.33
105	LB 6	5.000	3.480	122.894	28.90	0.1	1.90	13.07	3.67	3.63	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.32
106	LB 6	4.900	3.480	122.894	28.90	0.1	1.90	12.99	3.64	3.60	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.32
107	LB 6	4.800	3.480	122.894	28.90	0.1	1.89	12.92	3.61	3.58	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.32
108	LB 6	4.700	3.480	122.894	28.90	0.1	1.89	12.85	3.58	3.56	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.32
109	LB 6	4.600	3.480	122.894	28.90	0.1	1.89	12.78	3.55	3.54	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.32
110	LB 6	4.500	3.480	122.894	28.90	0.1	1.89	12.70	3.52	3.51	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.31
111	LB 6	4.400	3.480	122.894	28.90	0.1	1.89	12.63	3.49	3.49	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.31
112	LB 6	4.300	3.480	122.894	28.90	0.1	1.89	12.56	3.46	3.47	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.32
113	LB 6	4.200	3.480	122.894	28.90	0.1	1.89	12.49	3.43	3.45	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.32
114	LB 6	4.100	3.480	122.894	28.90	0.1	1.89	12.42	3.40	3.43	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.32
115	LB 6	4.000	3.480	122.894	28.90	0.1	1.90	12.36	3.37	3.41	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.32
116	LB 6	3.900	3.480	122.894	28.90	0.1	1.90	12.29	3.34	3.38	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.32
117	LB 6	3.800	3.480	122.894	28.90	0.1	1.90	12.22	3.32	3.36	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.32
118	LB 6	3.700	3.480	122.894	28.90	0.1	1.90	12.15	3.29	3.34	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.33
119	LB 6	3.600	3.480	122.894	28.90	0.1	1.90	12.09	3.26	3.32	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.33
120	LB 6	3.500	3.480	122.894	28.90	0.1	1.90	12.02	3.23	3.30	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.33
121	LB 6	3.400	3.480	122.894	28.90	0.1	1.90	11.95	3.21	3.28	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.34
122	LB 6	3.300	3.480	122.894	28.90	0.1	1.91	11.89	3.18	3.26	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.34
123	LB 6	3.200	3.480	122.894	28.90	0.1	1.91	11.82	3.16	3.24	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.34
124	LB 6	3.100	3.480	122.894	28.90	0.1	1.91	11.76	3.13	3.22	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.35
125	LB 6	3.000	3.480	122.894	28.90	0.1	1.91	11.70	3.11	3.20	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.699	1.021	0.17	0.25	0.05	0.62	0.00	3.35
126	LB 6	2.900	3.480	122.894	28.90	0.1	1.92	11.63	3.08	3.18	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.698	1.021	0.17	0.25	0.05	0.62	0.00	3.35
127	LB 6	2.800	3.480	122.894	28.90	0.1	1.92	11.57	3.06	3.16	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.698	1.021	0.17	0.25	0.05	0.62	0.00	3.36
128	LB 6	2.700	3.480	122.894	28.90	0.1	1.92	11.51	3.03	3.14	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.698	1.021	0.17	0.25	0.05	0.62	0.00	3.36
129	LB 6	2.600	3.480	122.894	28.90	0.1	1.92	11.44	3.01	3.12	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.698	1.021	0.17	0.25	0.05	0.62	0.00	3.37
130	LB 6	2.500	3.480	122.894	28.90	0.1	1.92	11.38	2.98	3.10	0.00	0.00	0.00	0.00	0.00	87.8	1.5	1.05	52.7	0.062890	0.062890	7.698	1.021	0.17	0.25	0.05	0.62	0.00	3.37
131	LB 7	2.400	3.480	122.894	28.90	0.1	1.92	11.32	2.96	3.08	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.698	0.729	0.17	0.25	0.05	0.62	0.00	2.53
132	LB 7	2.300	3.480	122.894	28.91	0.1	1.92	11.27	2.94	3.07	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.697	0.729	0.17	0.25	0.05	0.62	0.00	2.53
133	LB 7	2.200	3.480	122.894	28.91	0.1	1.92	11.21	2.93	3.06	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.697	0.729	0.17	0.25	0.05	0.62	0.00	2.53
134	LB 7	2.100	3.480	122.894	28.92	0.1	1.92	11.16	2.91	3.04	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.697	0.729	0.17	0.25	0.05	0.62	0.00	2.53
135	LB 7	2.000	3.480	122.894	28.92	0.1	1.93	11.11	2.89	3.03	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.695	0.729	0.17	0.25	0.05	0.62	0.00	2.53
136	LB 7	1.900	3.480	122.894	28.92	0.1	1.93	11.05	2.87	3.02	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.695	0.729	0.17	0.25	0.05	0.62	0.00	2.53
137	LB 7	1.800	3.480	122.894	28.93	0.1	1.93	11.00	2.85	3.01	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.695	0.729	0.17	0.25	0.05	0.62	0.00	2.53
138	LB 7	1.700	3.480	122.894	28.93	0.1	1.93	10.95	2.83	2.99	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.695	0.729	0.17	0.25	0.05	0.62	0.00	2.54
139	LB 7	1.600	3.480	122.894	28.94	0.1	1.93	10.89	2.81	2.98	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.694	0.729	0.17	0.25	0.05	0.62	0.00	2.54
140	LB 7	1.500	3.480	122.894	28.94	0.1	1.93	10.84	2.80	2.97	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.693	0.729	0.17	0.25	0.05	0.62	0.00	2.54
141	LB 7	1.400	3.480	122.894	28.94	0.1	1.93	10.79	2.78	2.95	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.693	0.729	0.17	0.25	0.05	0.62	0.00	2.54
142	LB 7	1.300	3.480	122.894	28.95	0.1	1.93	10.74	2.76	2.94	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.692	0.729	0.17	0.25	0.05	0.62	0.00	2.55
143	LB 7	1.200	3.480	122.894	28.95	0.1	1.93	10.69	2.74	2.93	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.691	0.730	0.18	0.25	0.05	0.62	0.00	2.55
144	LB 7	1.100	3.480	122.894	28.96	0.1	1.94	10.64	2.73	2.92	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.691	0.730	0.18	0.25	0.05	0.62	0.00	2.55
145	LB 7	1.000	3.480	122.894	28.96	0.1	1.94	10.59	2.71	2.91	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.691	0.730	0.18	0.25	0.05	0.62	0.00	2.55

CAPSULE SUMMARY FOR BAYOU L'EAU BLEU

IOR	REACH	DIST km	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	DO mg/L	BOD1 mg/L	BOD2 mg/L	NBOD mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	ORG-P mg/L	PO4-P mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
146	LB 7	0.900	3.480	122.894	28.96	0.1	1.94	10.54	2.69	2.89	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.690	0.730	0.18	0.25	0.05	0.62	0.00	2.56
147	LB 7	0.800	3.480	122.894	28.97	0.1	1.94	10.49	2.68	2.88	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.690	0.730	0.18	0.25	0.05	0.62	0.00	2.56
148	LB 7	0.700	3.480	122.894	28.97	0.1	1.94	10.44	2.66	2.87	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.689	0.730	0.18	0.25	0.05	0.62	0.00	2.56
149	LB 7	0.600	3.480	122.894	28.98	0.1	1.95	10.39	2.65	2.86	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.689	0.730	0.18	0.25	0.05	0.62	0.00	2.57
150	LB 7	0.500	3.480	122.894	28.98	0.1	1.95	10.34	2.63	2.84	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.688	0.730	0.18	0.25	0.05	0.62	0.00	2.57
151	LB 7	0.400	3.480	122.894	28.98	0.1	1.95	10.29	2.61	2.83	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.687	0.730	0.18	0.25	0.05	0.62	0.00	2.58
152	LB 7	0.300	3.480	122.894	28.99	0.1	1.96	10.22	2.59	2.82	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.687	0.730	0.18	0.25	0.05	0.62	0.00	2.59
153	LB 7	0.200	3.480	122.894	28.99	0.1	1.99	10.07	2.53	2.80	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.687	0.730	0.18	0.25	0.06	0.62	0.00	2.63
154	LB 7	0.100	3.480	122.894	29.00	0.1	2.12	9.62	2.33	2.77	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.686	0.730	0.18	0.25	0.06	0.62	0.00	2.64
155	LB 7	0.000	3.480	122.894	29.00	0.1	2.64	7.91	1.57	2.69	0.00	0.00	0.00	0.00	0.00	87.8	1.8	1.49	40.5	0.057612	0.057612	7.685	0.730	0.18	0.25	0.06	0.62	0.00	2.64

FINAL REPORT BAYOU L'EAU BLEU — WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 1 BLB FROM CC TO BLB01 — WATER QUALITY MODEL CALIBRATION RUN

********** INPUTS FOR REACH 1 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
1	HDWTR	3.21680	113.59960	28.80	0.09	193.00	13.40	5.12	15.56	3.63	15.56	3.63	3.58	0.00	0.00	0.00	108.00	0.00	0.00
6	WSTLD	0.02110	0.74514	29.00	0.13	277.00	18.60	2.91	7.43	3.67	7.43	3.67	4.64	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 1 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
1	15.50	15.40	3.21680	113.59960	0.0	0.047508	0.02	0.02	1.22	55.50	6771.0	5550.0	67.7	350.	0.000115	1.290	0.047508	0.0000000
2	15.40	15.30	3.21680	113.59960	0.0	0.047508	0.02	0.05	1.22	55.50	6771.0	5550.0	67.7	699.	0.000230	1.290	0.047508	0.0000000
3	15.30	15.20	3.21680	113.59960	0.0	0.047508	0.02	0.07	1.22	55.50	6771.0	5550.0	67.7	1049.	0.000344	1.290	0.047508	0.0000000
4	15.20	15.10	3.21680	113.59960	0.0	0.047508	0.02	0.10	1.22	55.50	6771.0	5550.0	67.7	1399.	0.000459	1.290	0.047508	0.0000000
5	15.10	15.00	3.21680	113.59960	0.0	0.047508	0.02	0.12	1.22	55.50	6771.0	5550.0	67.7	1748.	0.000574	1.290	0.047508	0.0000000
6	15.00	14.90	3.23790	114.34474	0.7	0.047820	0.02	0.15	1.22	55.50	6771.0	5550.0	67.7	2098.	0.000689	1.298	0.047820	0.0000000
TOT							0.15				40626.0	33300.0						0.0000000
AVG						0.047560			1.22	55.50			67.7					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 1 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	15.400	7.75	0.82	0.18	0.49	0.00	0.00	0.05	0.24	0.00	4.27	4.27	4.27	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	15.300	7.75	0.82	0.18	0.49	0.00	0.00	0.05	0.24	0.00	4.27	4.27	4.27	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	15.200	7.75	0.82	0.18	0.49	0.00	0.00	0.05	0.24	0.00	4.27	4.27	4.27	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	15.100	7.75	0.82	0.18	0.49	0.00	0.00	0.05	0.24	0.00	4.27	4.27	4.27	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	15.000	7.75	0.82	0.18	0.49	0.00	0.00	0.05	0.24	0.00	4.27	4.27	4.27	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	14.900	7.75	0.82	0.18	0.49	0.00	0.00	0.05	0.24	0.00	4.27	4.27	4.27	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.70	0.12	0.40	0.00	0.00	0.04	0.20	0.00	2.50			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 1 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
1	15.400	28.50	0.09	193.00	13.40	5.02	15.36	3.68	15.36	3.68	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
2	15.300	28.50	0.09	193.00	13.40	4.91	15.11	3.74	15.11	3.74	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
3	15.200	28.50	0.09	193.01	13.40	4.80	14.87	3.81	14.87	3.81	3.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
4	15.100	28.50	0.09	193.02	13.40	4.69	14.64	3.87	14.64	3.87	3.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
5	15.000	28.50	0.09	193.12	13.41	4.58	14.41	3.93	14.41	3.93	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
6	14.900	28.50	0.09	193.55	13.43	4.48	14.23	3.98	14.23	3.98	3.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 1 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
1	15.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
2	15.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
3	15.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
4	15.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
5	15.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
6	14.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 2 BLB01 TO BARGE CANAL WATER QUALITY MODEL CALIBRATION RUN

********** INPUTS FOR REACH 2 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
7	UPR RCH	3.23790	114.34474	28.50	0.09	193.55	13.43	4.48	14.23	3.98	14.23	3.98	3.61	0.00	0.00	0.00	92.20	0.00	0.00
22	WSTLD	0.24210	8.54963	28.70	0.08	184.00	13.50	4.87	16.89	3.66	16.89	3.66	4.13	0.00	0.00	0.00	108.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 2 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
7	14.90	14.80	3.23790	114.34474	0.7	0.047820	0.02	0.17	1.22	55.50	6771.0	5550.0	67.7	2448.	0.000803	1.298	0.047820	0.0000000
8	14.80	14.70	3.23790	114.34474	0.7	0.047820	0.02	0.19	1.22	55.50	6771.0	5550.0	67.7	2797.	0.000918	1.298	0.047820	0.0000000
9	14.70	14.60	3.23790	114.34474	0.7	0.047820	0.02	0.22	1.22	55.50	6771.0	5550.0	67.7	3147.	0.001033	1.298	0.047820	0.0000000
10	14.60	14.50	3.23790	114.34474	0.7	0.047820	0.02	0.24	1.22	55.50	6771.0	5550.0	67.7	3496.	0.001148	1.298	0.047820	0.0000000
11	14.50	14.40	3.23790	114.34474	0.7	0.047820	0.02	0.27	1.22	55.50	6771.0	5550.0	67.7	3846.	0.001262	1.298	0.047820	0.0000000
12	14.40	14.30	3.23790	114.34474	0.7	0.047820	0.02	0.29	1.22	55.50	6771.0	5550.0	67.7	4196.	0.001377	1.298	0.047820	0.0000000
13	14.30	14.20	3.23790	114.34474	0.7	0.047820	0.02	0.32	1.22	55.50	6771.0	5550.0	67.7	4545.	0.001492	1.298	0.047820	0.0000000
14	14.20	14.10	3.23790	114.34474	0.7	0.047820	0.02	0.34	1.22	55.50	6771.0	5550.0	67.7	4895.	0.001607	1.298	0.047820	0.0000000
15	14.10	14.00	3.23790	114.34474	0.7	0.047820	0.02	0.36	1.22	55.50	6771.0	5550.0	67.7	5245.	0.001721	1.298	0.047820	0.0000000
16	14.00	13.90	3.23790	114.34474	0.7	0.047820	0.02	0.39	1.22	55.50	6771.0	5550.0	67.7	5594.	0.001836	1.298	0.047820	0.0000000
17	13.90	13.80	3.23790	114.34474	0.7	0.047820	0.02	0.41	1.22	55.50	6771.0	5550.0	67.7	5944.	0.001951	1.298	0.047820	0.0000000
18	13.80	13.70	3.23790	114.34474	0.7	0.047820	0.02	0.44	1.22	55.50	6771.0	5550.0	67.7	6294.	0.002066	1.298	0.047820	0.0000000
19	13.70	13.60	3.23790	114.34474	0.7	0.047820	0.02	0.46	1.22	55.50	6771.0	5550.0	67.7	6643.	0.002180	1.298	0.047820	0.0000000
20	13.60	13.50	3.23790	114.34474	0.7	0.047820	0.02	0.48	1.22	55.50	6771.0	5550.0	67.7	6993.	0.002295	1.298	0.047820	0.0000000
21	13.50	13.40	3.23790	114.34474	0.7	0.047820	0.02	0.51	1.22	55.50	6771.0	5550.0	67.7	7343.	0.002410	1.298	0.047820	0.0000000
22	13.40	13.30	3.48000	122.89438	7.6	0.051396	0.02	0.53	1.22	55.50	6771.0	5550.0	67.7	7692.	0.002525	1.395	0.051396	0.0000000

TOT												0.39								108336.0	88800.0								0.0000000
AVG											0.048029				1.22	55.50						67.7							

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 2 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
7	14.800	7.75	0.82	0.18	0.24	0.00	0.00	0.05	0.24	0.00	2.56	2.56	2.56	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	14.700	7.75	0.82	0.18	0.24	0.00	0.00	0.05	0.24	0.00	2.57	2.57	2.57	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	14.600	7.75	0.82	0.18	0.24	0.00	0.00	0.05	0.24	0.00	2.57	2.57	2.57	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	14.500	7.74	0.82	0.18	0.25	0.00	0.00	0.05	0.25	0.00	2.57	2.57	2.57	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	14.400	7.74	0.82	0.18	0.25	0.00	0.00	0.05	0.25	0.00	2.58	2.58	2.58	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	14.300	7.74	0.82	0.18	0.25	0.00	0.00	0.05	0.25	0.00	2.58	2.58	2.58	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	14.200	7.74	0.82	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.58	2.58	2.58	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14.100	7.73	0.82	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.59	2.59	2.59	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	14.000	7.73	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.59	2.59	2.59	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	13.900	7.73	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.59	2.59	2.59	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	13.800	7.73	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.60	2.60	2.60	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	13.700	7.72	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.60	2.60	2.60	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	13.600	7.72	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.60	2.60	2.60	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	13.500	7.72	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.60	2.60	2.60	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	13.400	7.72	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.61	2.61	2.61	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	13.300	7.71	0.84	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.61	2.61	2.61	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.70	0.12	0.20	0.00	0.00	0.04	0.20	0.00	1.50			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 2 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
7	14.800	28.52	0.09	193.55	13.43	4.41	14.37	4.01	14.37	4.01	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
8	14.700	28.54	0.09	193.55	13.43	4.35	14.51	4.03	14.51	4.03	3.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
9	14.600	28.56	0.09	193.55	13.43	4.28	14.65	4.06	14.65	4.06	3.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
10	14.500	28.58	0.09	193.55	13.43	4.21	14.79	4.08	14.79	4.08	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
11	14.400	28.59	0.09	193.55	13.43	4.15	14.93	4.11	14.93	4.11	3.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
12	14.300	28.61	0.09	193.55	13.43	4.08	15.06	4.14	15.06	4.14	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
13	14.200	28.63	0.09	193.55	13.43	4.01	15.20	4.16	15.20	4.16	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
14	14.100	28.65	0.09	193.55	13.43	3.95	15.33	4.19	15.33	4.19	3.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
15	14.000	28.67	0.09	193.55	13.43	3.89	15.46	4.21	15.46	4.21	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
16	13.900	28.69	0.09	193.55	13.43	3.82	15.59	4.24	15.59	4.24	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
17	13.800	28.71	0.09	193.55	13.43	3.76	15.72	4.26	15.72	4.26	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
18	13.700	28.72	0.09	193.55	13.43	3.70	15.85	4.29	15.85	4.29	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
19	13.600	28.74	0.09	193.54	13.43	3.63	15.97	4.31	15.97	4.31	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
20	13.500	28.76	0.09	193.52	13.43	3.57	16.10	4.33	16.10	4.33	4.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
21	13.400	28.78	0.09	193.40	13.43	3.53	16.23	4.35	16.23	4.35	4.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
22	13.300	28.80	0.09	192.88	13.44	3.55	16.39	4.34	16.39	4.34	4.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 2 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
7	14.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
8	14.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
9	14.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
10	14.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
11	14.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
12	14.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
13	14.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
14	14.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
15	14.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
16	13.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0

17	13.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
18	13.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
19	13.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20	13.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
21	13.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
22	13.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 3 BARGE CANAL TO RKM 12.0 WATER QUALITY MODEL CALIBRATION RUN

********** INPUTS FOR REACH 3 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
23	UPR RCH	3.48000	122.89438	28.80	0.09	192.88	13.44	3.55	16.39	4.34	16.39	4.34	4.22	0.00	0.00	0.00	92.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 3**********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
23	13.30	13.20	3.48000	122.89438	7.6	0.069196	0.02	0.55	1.27	39.60	5029.2	3960.0	50.3	7942.	0.003509	1.942	0.069196	0.0000000
24	13.20	13.10	3.48000	122.89438	7.6	0.069196	0.02	0.57	1.27	39.60	5029.2	3960.0	50.3	8191.	0.003619	1.942	0.069196	0.0000000
25	13.10	13.00	3.48000	122.89438	7.6	0.069196	0.02	0.58	1.27	39.60	5029.2	3960.0	50.3	8441.	0.003730	1.942	0.069196	0.0000000
26	13.00	12.90	3.48000	122.89438	7.6	0.069196	0.02	0.60	1.27	39.60	5029.2	3960.0	50.3	8690.	0.003840	1.942	0.069196	0.0000000
27	12.90	12.80	3.48000	122.89438	7.6	0.069196	0.02	0.62	1.27	39.60	5029.2	3960.0	50.3	8940.	0.003950	1.942	0.069196	0.0000000
28	12.80	12.70	3.48000	122.89438	7.6	0.069196	0.02	0.63	1.27	39.60	5029.2	3960.0	50.3	9189.	0.004060	1.942	0.069196	0.0000000
29	12.70	12.60	3.48000	122.89438	7.6	0.069196	0.02	0.65	1.27	39.60	5029.2	3960.0	50.3	9439.	0.004171	1.942	0.069196	0.0000000
30	12.60	12.50	3.48000	122.89438	7.6	0.069196	0.02	0.67	1.27	39.60	5029.2	3960.0	50.3	9688.	0.004281	1.942	0.069196	0.0000000
31	12.50	12.40	3.48000	122.89438	7.6	0.069196	0.02	0.68	1.27	39.60	5029.2	3960.0	50.3	9938.	0.004391	1.942	0.069196	0.0000000
32	12.40	12.30	3.48000	122.89438	7.6	0.069196	0.02	0.70	1.27	39.60	5029.2	3960.0	50.3	10187.	0.004501	1.942	0.069196	0.0000000
33	12.30	12.20	3.48000	122.89438	7.6	0.069196	0.02	0.72	1.27	39.60	5029.2	3960.0	50.3	10437.	0.004612	1.942	0.069196	0.0000000
34	12.20	12.10	3.48000	122.89438	7.6	0.069196	0.02	0.73	1.27	39.60	5029.2	3960.0	50.3	10686.	0.004722	1.942	0.069196	0.0000000
35	12.10	12.00	3.48000	122.89438	7.6	0.069196	0.02	0.75	1.27	39.60	5029.2	3960.0	50.3	10936.	0.004832	1.942	0.069196	0.0000000
TOT							0.22				65379.6	51480.0						0.0000000
AVG						0.069196			1.27	39.60			50.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 3 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
23	13.200	7.71	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.74	1.74	1.74	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	13.100	7.71	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.74	1.74	1.74	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	13.000	7.71	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	12.900	7.71	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	12.800	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	12.700	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	12.600	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	12.500	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	12.400	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	12.300	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	12.200	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	12.100	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

35	12.000	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.75	0.12	0.20	0.00	0.00	0.04	0.20	0.00	1.00			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 3 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
23	13.200	28.82	0.09	192.88	13.44	3.52	16.56	4.38	16.56	4.38	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
24	13.100	28.83	0.09	192.88	13.44	3.50	16.72	4.42	16.72	4.42	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
25	13.000	28.85	0.09	192.88	13.44	3.47	16.88	4.46	16.88	4.46	4.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
26	12.900	28.86	0.09	192.88	13.44	3.44	17.04	4.50	17.04	4.50	4.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
27	12.800	28.88	0.09	192.88	13.44	3.41	17.20	4.55	17.20	4.55	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
28	12.700	28.89	0.09	192.88	13.44	3.38	17.35	4.59	17.35	4.59	4.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
29	12.600	28.91	0.09	192.88	13.44	3.35	17.51	4.63	17.51	4.63	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
30	12.500	28.92	0.09	192.88	13.44	3.32	17.66	4.67	17.66	4.67	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
31	12.400	28.94	0.09	192.88	13.44	3.29	17.82	4.71	17.82	4.71	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
32	12.300	28.95	0.09	192.88	13.44	3.26	17.97	4.75	17.97	4.75	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
33	12.200	28.97	0.09	192.88	13.44	3.23	18.12	4.79	18.12	4.79	4.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
34	12.100	28.98	0.09	192.88	13.44	3.20	18.26	4.82	18.26	4.82	5.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
35	12.000	29.00	0.09	192.88	13.44	3.16	18.36	4.85	18.36	4.85	5.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 3 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
23	13.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
24	13.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
25	13.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
26	12.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
27	12.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
28	12.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
29	12.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
30	12.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
31	12.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
32	12.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
33	12.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
34	12.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
35	12.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 4 BLB FROM RKM 12.0 TO RKM 8.4 WATER QUALITY MODEL CALIBRATION RUN

********** INPUTS FOR REACH 4 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
36	UPR RCH	3.48000	122.89438	29.00	0.09	192.88	13.44	3.16	18.36	4.85	18.36	4.85	5.05	0.00	0.00	0.00	92.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 4 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m^3/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m^3/s
36	12.00	11.90	3.48000	122.89438	7.6	0.069196	0.02	0.77	1.27	39.60	5029.2	3960.0	50.3	11185.	0.004942	1.942	0.069196	0.0000000
37	11.90	11.80	3.48000	122.89438	7.6	0.069196	0.02	0.78	1.27	39.60	5029.2	3960.0	50.3	11435.	0.005052	1.942	0.069196	0.0000000
38	11.80	11.70	3.48000	122.89438	7.6	0.069196	0.02	0.80	1.27	39.60	5029.2	3960.0	50.3	11684.	0.005163	1.942	0.069196	0.0000000
39	11.70	11.60	3.48000	122.89438	7.6	0.069196	0.02	0.82	1.27	39.60	5029.2	3960.0	50.3	11933.	0.005273	1.942	0.069196	0.0000000
40	11.60	11.50	3.48000	122.89438	7.6	0.069196	0.02	0.83	1.27	39.60	5029.2	3960.0	50.3	12183.	0.005383	1.942	0.069196	0.0000000
41	11.50	11.40	3.48000	122.89438	7.6	0.069196	0.02	0.85	1.27	39.60	5029.2	3960.0	50.3	12432.	0.005493	1.942	0.069196	0.0000000
42	11.40	11.30	3.48000	122.89438	7.6	0.069196	0.02	0.87	1.27	39.60	5029.2	3960.0	50.3	12682.	0.005604	1.942	0.069196	0.0000000
43	11.30	11.20	3.48000	122.89438	7.6	0.069196	0.02	0.88	1.27	39.60	5029.2	3960.0	50.3	12931.	0.005714	1.942	0.069196	0.0000000
44	11.20	11.10	3.48000	122.89438	7.6	0.069196	0.02	0.90	1.27	39.60	5029.2	3960.0	50.3	13181.	0.005824	1.942	0.069196	0.0000000
45	11.10	11.00	3.48000	122.89438	7.6	0.069196	0.02	0.92	1.27	39.60	5029.2	3960.0	50.3	13430.	0.005934	1.942	0.069196	0.0000000
46	11.00	10.90	3.48000	122.89438	7.6	0.069196	0.02	0.93	1.27	39.60	5029.2	3960.0	50.3	13680.	0.006045	1.942	0.069196	0.0000000
47	10.90	10.80	3.48000	122.89438	7.6	0.069196	0.02	0.95	1.27	39.60	5029.2	3960.0	50.3	13929.	0.006155	1.942	0.069196	0.0000000
48	10.80	10.70	3.48000	122.89438	7.6	0.069196	0.02	0.97	1.27	39.60	5029.2	3960.0	50.3	14179.	0.006265	1.942	0.069196	0.0000000
49	10.70	10.60	3.48000	122.89438	7.6	0.069196	0.02	0.98	1.27	39.60	5029.2	3960.0	50.3	14428.	0.006375	1.942	0.069196	0.0000000
50	10.60	10.50	3.48000	122.89438	7.6	0.069196	0.02	1.00	1.27	39.60	5029.2	3960.0	50.3	14678.	0.006486	1.942	0.069196	0.0000000
51	10.50	10.40	3.48000	122.89438	7.6	0.069196	0.02	1.02	1.27	39.60	5029.2	3960.0	50.3	14927.	0.006596	1.942	0.069196	0.0000000
52	10.40	10.30	3.48000	122.89438	7.6	0.069196	0.02	1.03	1.27	39.60	5029.2	3960.0	50.3	15177.	0.006706	1.942	0.069196	0.0000000
53	10.30	10.20	3.48000	122.89438	7.6	0.069196	0.02	1.05	1.27	39.60	5029.2	3960.0	50.3	15426.	0.006816	1.942	0.069196	0.0000000
54	10.20	10.10	3.48000	122.89438	7.6	0.069196	0.02	1.07	1.27	39.60	5029.2	3960.0	50.3	15676.	0.006927	1.942	0.069196	0.0000000
55	10.10	10.00	3.48000	122.89438	7.6	0.069196	0.02	1.08	1.27	39.60	5029.2	3960.0	50.3	15925.	0.007037	1.942	0.069196	0.0000000
56	10.00	9.90	3.48000	122.89438	7.6	0.069196	0.02	1.10	1.27	39.60	5029.2	3960.0	50.3	16175.	0.007147	1.942	0.069196	0.0000000
57	9.90	9.80	3.48000	122.89438	7.6	0.069196	0.02	1.12	1.27	39.60	5029.2	3960.0	50.3	16424.	0.007257	1.942	0.069196	0.0000000
58	9.80	9.70	3.48000	122.89438	7.6	0.069196	0.02	1.13	1.27	39.60	5029.2	3960.0	50.3	16674.	0.007367	1.942	0.069196	0.0000000
59	9.70	9.60	3.48000	122.89438	7.6	0.069196	0.02	1.15	1.27	39.60	5029.2	3960.0	50.3	16923.	0.007478	1.942	0.069196	0.0000000
60	9.60	9.50	3.48000	122.89438	7.6	0.069196	0.02	1.17	1.27	39.60	5029.2	3960.0	50.3	17173.	0.007588	1.942	0.069196	0.0000000
61	9.50	9.40	3.48000	122.89438	7.6	0.069196	0.02	1.18	1.27	39.60	5029.2	3960.0	50.3	17422.	0.007698	1.942	0.069196	0.0000000
62	9.40	9.30	3.48000	122.89438	7.6	0.069196	0.02	1.20	1.27	39.60	5029.2	3960.0	50.3	17672.	0.007808	1.942	0.069196	0.0000000
63	9.30	9.20	3.48000	122.89438	7.6	0.069196	0.02	1.22	1.27	39.60	5029.2	3960.0	50.3	17921.	0.007919	1.942	0.069196	0.0000000
64	9.20	9.10	3.48000	122.89438	7.6	0.069196	0.02	1.23	1.27	39.60	5029.2	3960.0	50.3	18170.	0.008029	1.942	0.069196	0.0000000
65	9.10	9.00	3.48000	122.89438	7.6	0.069196	0.02	1.25	1.27	39.60	5029.2	3960.0	50.3	18420.	0.008139	1.942	0.069196	0.0000000
66	9.00	8.90	3.48000	122.89438	7.6	0.069196	0.02	1.27	1.27	39.60	5029.2	3960.0	50.3	18669.	0.008249	1.942	0.069196	0.0000000
67	8.90	8.80	3.48000	122.89438	7.6	0.069196	0.02	1.28	1.27	39.60	5029.2	3960.0	50.3	18919.	0.008360	1.942	0.069196	0.0000000
68	8.80	8.70	3.48000	122.89438	7.6	0.069196	0.02	1.30	1.27	39.60	5029.2	3960.0	50.3	19168.	0.008470	1.942	0.069196	0.0000000
69	8.70	8.60	3.48000	122.89438	7.6	0.069196	0.02	1.32	1.27	39.60	5029.2	3960.0	50.3	19418.	0.008580	1.942	0.069196	0.0000000
70	8.60	8.50	3.48000	122.89438	7.6	0.069196	0.02	1.33	1.27	39.60	5029.2	3960.0	50.3	19667.	0.008690	1.942	0.069196	0.0000000
71	8.50	8.40	3.48000	122.89438	7.6	0.069196	0.02	1.35	1.27	39.60	5029.2	3960.0	50.3	19917.	0.008801	1.942	0.069196	0.0000000
TOT							0.60				181051.3	142560.0						0.0000000
AVG						0.069196			1.27	39.60			50.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 4 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
36	11.900	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	11.800	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	11.700	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	11.600	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	11.500	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

41	11.400	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	11.300	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	11.200	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	11.100	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	11.000	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	10.900	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	10.800	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	10.700	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	10.600	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	10.500	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	10.400	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	10.300	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	10.200	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	10.100	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	10.000	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	9.900	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	9.800	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	9.700	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	9.600	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	9.500	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	9.400	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	9.300	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	9.200	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	9.100	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	9.000	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	8.900	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	8.800	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	8.700	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	8.600	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	8.500	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	8.400	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.75	0.12	0.20	0.00	0.00	0.04	0.20	0.00	1.00			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 4 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
36	11.900	29.00	0.09	192.88	13.44	3.13	18.29	4.83	18.29	4.83	5.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.1	0.0	0.	0.00
37	11.800	28.99	0.09	192.88	13.44	3.11	18.23	4.82	18.23	4.82	5.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.0	0.0	0.	0.00
38	11.700	28.99	0.09	192.88	13.44	3.08	18.16	4.80	18.16	4.80	4.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.8	0.0	0.	0.00
39	11.600	28.99	0.09	192.88	13.44	3.05	18.10	4.78	18.10	4.78	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.7	0.0	0.	0.00
40	11.500	28.99	0.09	192.88	13.44	3.02	18.03	4.76	18.03	4.76	4.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.6	0.0	0.	0.00
41	11.400	28.98	0.09	192.88	13.44	2.99	17.97	4.75	17.97	4.75	4.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.5	0.0	0.	0.00
42	11.300	28.98	0.09	192.88	13.44	2.97	17.90	4.73	17.90	4.73	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.3	0.0	0.	0.00
43	11.200	28.98	0.09	192.88	13.44	2.94	17.84	4.71	17.84	4.71	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.2	0.0	0.	0.00
44	11.100	28.98	0.09	192.88	13.44	2.92	17.78	4.70	17.78	4.70	4.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.1	0.0	0.	0.00
45	11.000	28.97	0.09	192.88	13.44	2.90	17.72	4.68	17.72	4.68	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.0	0.0	0.	0.00
46	10.900	28.97	0.09	192.88	13.44	2.87	17.66	4.67	17.66	4.67	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.9	0.0	0.	0.00
47	10.800	28.97	0.09	192.88	13.44	2.85	17.59	4.65	17.59	4.65	4.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.7	0.0	0.	0.00
48	10.700	28.96	0.09	192.88	13.44	2.83	17.53	4.63	17.53	4.63	4.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.6	0.0	0.	0.00
49	10.600	28.96	0.09	192.88	13.44	2.81	17.47	4.62	17.47	4.62	4.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.5	0.0	0.	0.00
50	10.500	28.96	0.09	192.88	13.44	2.79	17.41	4.60	17.41	4.60	4.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.4	0.0	0.	0.00
51	10.400	28.96	0.09	192.88	13.44	2.77	17.35	4.59	17.35	4.59	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.2	0.0	0.	0.00
52	10.300	28.95	0.09	192.88	13.44	2.75	17.29	4.57	17.29	4.57	4.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.1	0.0	0.	0.00
53	10.200	28.95	0.09	192.88	13.44	2.73	17.24	4.55	17.24	4.55	4.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.0	0.0	0.	0.00
54	10.100	28.95	0.09	192.88	13.44	2.71	17.18	4.54	17.18	4.54	4.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.9	0.0	0.	0.00
55	10.000	28.94	0.09	192.88	13.44	2.69	17.12	4.52	17.12	4.52	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.8	0.0	0.	0.00
56	9.900	28.94	0.09	192.88	13.44	2.68	17.06	4.51	17.06	4.51	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.6	0.0	0.	0.00
57	9.800	28.94	0.09	192.88	13.44	2.66	17.00	4.49	17.00	4.49	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.5	0.0	0.	0.00
58	9.700	28.94	0.09	192.88	13.44	2.64	16.95	4.48	16.95	4.48	4.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.4	0.0	0.	0.00
59	9.600	28.93	0.09	192.88	13.44	2.63	16.89	4.46	16.89	4.46	4.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.3	0.0	0.	0.00
60	9.500	28.93	0.09	192.88	13.44	2.61	16.84	4.45	16.84	4.45	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.1	0.0	0.	0.00
61	9.400	28.93	0.09	192.88	13.44	2.60	16.78	4.43	16.78	4.43	4.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.0	0.0	0.	0.00
62	9.300	28.92	0.09	192.88	13.44	2.58	16.73	4.42	16.73	4.42	4.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.9	0.0	0.	0.00
63	9.200	28.92	0.09	192.88	13.44	2.57	16.67	4.40	16.67	4.40	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.8	0.0	0.	0.00
64	9.100	28.92	0.09	192.88	13.44	2.56	16.62	4.39	16.62	4.39	4.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.7	0.0	0.	0.00
65	9.000	28.92	0.09	192.88	13.44	2.54	16.56	4.37	16.56	4.37	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.5	0.0	0.	0.00
66	8.900	28.91	0.09	192.88	13.44	2.53	16.51	4.36	16.51	4.36	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.4	0.0	0.	0.00

67	8.800	28.91	0.09	192.88	13.44	2.52	16.46	4.34	16.46	4.34	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.3	0.0	0.	0.00
68	8.700	28.91	0.09	192.88	13.44	2.51	16.40	4.33	16.40	4.33	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.2	0.0	0.	0.00
69	8.600	28.91	0.09	192.88	13.44	2.50	16.35	4.31	16.35	4.31	4.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.0	0.0	0.	0.00
70	8.500	28.90	0.09	192.88	13.44	2.49	16.30	4.30	16.30	4.30	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.9	0.0	0.	0.00
71	8.400	28.90	0.09	192.88	13.44	2.47	16.24	4.29	16.24	4.29	4.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 4 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
36	11.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.1	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
37	11.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
38	11.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
39	11.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.7	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
40	11.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.6	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
41	11.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.5	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
42	11.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.3	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
43	11.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
44	11.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.1	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
45	11.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
46	10.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.9	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
47	10.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.7	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
48	10.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.6	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
49	10.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.5	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
50	10.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.4	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
51	10.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
52	10.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.1	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
53	10.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
54	10.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.9	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
55	10.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
56	9.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.6	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
57	9.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.5	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
58	9.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.4	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
59	9.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.3	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
60	9.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.1	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
61	9.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
62	9.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.9	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
63	9.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
64	9.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.7	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
65	9.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.5	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
66	8.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.4	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
67	8.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.3	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
68	8.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
69	8.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
70	8.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.9	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
71	8.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 5 BLB FROM RKM 8.4 TO BLB05 WATER QUALITY MODEL CALIBRATION RUN

********** INPUTS FOR REACH 5 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
72	UPR RCH	3.48000	122.89438	28.90	0.09	192.88	13.44	2.47	16.24	4.29	16.24	4.29	4.28	0.00	0.00	0.00	87.80	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 5 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
72	8.40	8.30	3.48000	122.89438	7.6	0.062890	0.02	1.37	1.05	52.70	5533.5	5270.0	55.3	20249.	0.008132	1.506	0.062890	0.0000000
73	8.30	8.20	3.48000	122.89438	7.6	0.062890	0.02	1.39	1.05	52.70	5533.5	5270.0	55.3	20581.	0.008265	1.506	0.062890	0.0000000
74	8.20	8.10	3.48000	122.89438	7.6	0.062890	0.02	1.41	1.05	52.70	5533.5	5270.0	55.3	20913.	0.008398	1.506	0.062890	0.0000000
75	8.10	8.00	3.48000	122.89438	7.6	0.062890	0.02	1.42	1.05	52.70	5533.5	5270.0	55.3	21245.	0.008532	1.506	0.062890	0.0000000
76	8.00	7.90	3.48000	122.89438	7.6	0.062890	0.02	1.44	1.05	52.70	5533.5	5270.0	55.3	21577.	0.008665	1.506	0.062890	0.0000000
77	7.90	7.80	3.48000	122.89438	7.6	0.062890	0.02	1.46	1.05	52.70	5533.5	5270.0	55.3	21909.	0.008798	1.506	0.062890	0.0000000
78	7.80	7.70	3.48000	122.89438	7.6	0.062890	0.02	1.48	1.05	52.70	5533.5	5270.0	55.3	22241.	0.008932	1.506	0.062890	0.0000000
79	7.70	7.60	3.48000	122.89438	7.6	0.062890	0.02	1.50	1.05	52.70	5533.5	5270.0	55.3	22573.	0.009065	1.506	0.062890	0.0000000
80	7.60	7.50	3.48000	122.89438	7.6	0.062890	0.02	1.52	1.05	52.70	5533.5	5270.0	55.3	22905.	0.009198	1.506	0.062890	0.0000000
81	7.50	7.40	3.48000	122.89438	7.6	0.062890	0.02	1.54	1.05	52.70	5533.5	5270.0	55.3	23237.	0.009332	1.506	0.062890	0.0000000
82	7.40	7.30	3.48000	122.89438	7.6	0.062890	0.02	1.55	1.05	52.70	5533.5	5270.0	55.3	23569.	0.009465	1.506	0.062890	0.0000000
83	7.30	7.20	3.48000	122.89438	7.6	0.062890	0.02	1.57	1.05	52.70	5533.5	5270.0	55.3	23901.	0.009598	1.506	0.062890	0.0000000
84	7.20	7.10	3.48000	122.89438	7.6	0.062890	0.02	1.59	1.05	52.70	5533.5	5270.0	55.3	24233.	0.009732	1.506	0.062890	0.0000000
85	7.10	7.00	3.48000	122.89438	7.6	0.062890	0.02	1.61	1.05	52.70	5533.5	5270.0	55.3	24565.	0.009865	1.506	0.062890	0.0000000
86	7.00	6.90	3.48000	122.89438	7.6	0.062890	0.02	1.63	1.05	52.70	5533.5	5270.0	55.3	24897.	0.009998	1.506	0.062890	0.0000000
87	6.90	6.80	3.48000	122.89438	7.6	0.062890	0.02	1.65	1.05	52.70	5533.5	5270.0	55.3	25229.	0.010132	1.506	0.062890	0.0000000
88	6.80	6.70	3.48000	122.89438	7.6	0.062890	0.02	1.66	1.05	52.70	5533.5	5270.0	55.3	25561.	0.010265	1.506	0.062890	0.0000000
89	6.70	6.60	3.48000	122.89438	7.6	0.062890	0.02	1.68	1.05	52.70	5533.5	5270.0	55.3	25893.	0.010398	1.506	0.062890	0.0000000
90	6.60	6.50	3.48000	122.89438	7.6	0.062890	0.02	1.70	1.05	52.70	5533.5	5270.0	55.3	26225.	0.010532	1.506	0.062890	0.0000000
91	6.50	6.40	3.48000	122.89438	7.6	0.062890	0.02	1.72	1.05	52.70	5533.5	5270.0	55.3	26557.	0.010665	1.506	0.062890	0.0000000
92	6.40	6.30	3.48000	122.89438	7.6	0.062890	0.02	1.74	1.05	52.70	5533.5	5270.0	55.3	26889.	0.010798	1.506	0.062890	0.0000000
TOT							0.39				116203.5	110670.0						0.0000000
AVG						0.062890			1.05	52.70			55.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 5 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
72	8.300	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	8.200	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	8.100	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	8.000	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	7.900	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	7.800	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	7.700	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	7.600	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	7.500	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	7.400	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82	7.300	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	7.200	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	7.100	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	7.000	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	6.900	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	6.800	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	6.700	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	6.600	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	6.500	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	6.400	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	6.300	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.47	0.14	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.87	0.12	0.20	0.00	0.00	0.04	0.20	0.00	2.00			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 5 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM

72	8.300	28.90	0.09	192.88	13.44	2.44	16.13	4.28	16.13	4.28	4.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
73	8.200	28.90	0.09	192.88	13.44	2.41	16.02	4.27	16.02	4.27	4.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
74	8.100	28.90	0.09	192.88	13.44	2.38	15.91	4.26	15.91	4.26	4.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
75	8.000	28.90	0.10	192.88	13.44	2.35	15.80	4.26	15.80	4.26	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
76	7.900	28.90	0.10	192.88	13.44	2.32	15.69	4.25	15.69	4.25	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
77	7.800	28.90	0.10	192.88	13.44	2.29	15.58	4.24	15.58	4.24	4.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
78	7.700	28.90	0.10	192.88	13.44	2.27	15.48	4.23	15.48	4.23	4.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
79	7.600	28.90	0.10	192.88	13.44	2.24	15.37	4.23	15.37	4.23	4.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
80	7.500	28.90	0.10	192.88	13.44	2.21	15.27	4.22	15.27	4.22	4.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
81	7.400	28.90	0.10	192.88	13.44	2.19	15.17	4.21	15.17	4.21	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
82	7.300	28.90	0.11	192.88	13.44	2.17	15.06	4.20	15.06	4.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
83	7.200	28.90	0.11	192.88	13.44	2.15	14.96	4.19	14.96	4.19	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
84	7.100	28.90	0.11	192.88	13.44	2.12	14.86	4.19	14.86	4.19	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
85	7.000	28.90	0.11	192.88	13.44	2.10	14.76	4.18	14.76	4.18	4.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
86	6.900	28.90	0.11	192.88	13.44	2.08	14.66	4.17	14.66	4.17	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
87	6.800	28.90	0.11	192.88	13.44	2.07	14.56	4.17	14.56	4.17	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
88	6.700	28.90	0.11	192.88	13.44	2.05	14.47	4.16	14.47	4.16	4.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
89	6.600	28.90	0.12	192.88	13.44	2.03	14.37	4.15	14.37	4.15	3.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
90	6.500	28.90	0.12	192.88	13.44	2.01	14.27	4.14	14.27	4.14	3.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
91	6.400	28.90	0.12	192.88	13.44	2.00	14.18	4.13	14.18	4.13	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
92	6.300	28.90	0.12	192.88	13.44	1.98	14.09	4.12	14.09	4.12	3.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 5 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
72	8.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
73	8.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
74	8.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
75	8.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
76	7.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
77	7.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
78	7.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
79	7.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
80	7.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
81	7.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
82	7.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
83	7.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
84	7.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
85	7.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
86	6.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
87	6.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
88	6.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
89	6.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
90	6.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
91	6.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
92	6.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 6 BLB FROM BLB05 TO RKM 2.5 WATER QUALITY MODEL CALIBRATION RUN

********** INPUTS FOR REACH 6 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
93	UPR RCH	3.48000	122.89438	28.90	0.12	192.88	13.44	1.98	14.09	4.12	14.09	4.12	3.94	0.00	0.00	0.00	87.80	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 6 **********

ELEM	BEGIN	ENDING	ADVCTV	ADVCTV	PCT	ADVCTV	TRAVEL	CUM	DEPTH	WIDTH	VOLUME	SURFACE	X-SECT	TIDAL	TIDAL	DISPRSN	MEAN	EVAP

NO.	DIST km	DIST km	FLOW m³/s	FLOW cfs	EFF	VELO m/s	TIME days	TIME days	m	m	m³	AREA m²	AREA m²	PRISM m³	VELO m/s	m²/s	VELO m/s	m³/s
93	6.30	6.20	3.48000	122.89438	7.6	0.062890	0.02	1.76	1.05	52.70	5533.5	5270.0	55.3	27221.	0.010932	1.506	0.062890	0.0000000
94	6.20	6.10	3.48000	122.89438	7.6	0.062890	0.02	1.77	1.05	52.70	5533.5	5270.0	55.3	27553.	0.011065	1.506	0.062890	0.0000000
95	6.10	6.00	3.48000	122.89438	7.6	0.062890	0.02	1.79	1.05	52.70	5533.5	5270.0	55.3	27885.	0.011198	1.506	0.062890	0.0000000
96	6.00	5.90	3.48000	122.89438	7.6	0.062890	0.02	1.81	1.05	52.70	5533.5	5270.0	55.3	28217.	0.011332	1.506	0.062890	0.0000000
97	5.90	5.80	3.48000	122.89438	7.6	0.062890	0.02	1.83	1.05	52.70	5533.5	5270.0	55.3	28549.	0.011465	1.506	0.062890	0.0000000
98	5.80	5.70	3.48000	122.89438	7.6	0.062890	0.02	1.85	1.05	52.70	5533.5	5270.0	55.3	28881.	0.011598	1.506	0.062890	0.0000000
99	5.70	5.60	3.48000	122.89438	7.6	0.062890	0.02	1.87	1.05	52.70	5533.5	5270.0	55.3	29213.	0.011732	1.506	0.062890	0.0000000
100	5.60	5.50	3.48000	122.89438	7.6	0.062890	0.02	1.88	1.05	52.70	5533.5	5270.0	55.3	29545.	0.011865	1.506	0.062890	0.0000000
101	5.50	5.40	3.48000	122.89438	7.6	0.062890	0.02	1.90	1.05	52.70	5533.5	5270.0	55.3	29877.	0.011998	1.506	0.062890	0.0000000
102	5.40	5.30	3.48000	122.89438	7.6	0.062890	0.02	1.92	1.05	52.70	5533.5	5270.0	55.3	30209.	0.012132	1.506	0.062890	0.0000000
103	5.30	5.20	3.48000	122.89438	7.6	0.062890	0.02	1.94	1.05	52.70	5533.5	5270.0	55.3	30541.	0.012265	1.506	0.062890	0.0000000
104	5.20	5.10	3.48000	122.89438	7.6	0.062890	0.02	1.96	1.05	52.70	5533.5	5270.0	55.3	30873.	0.012398	1.506	0.062890	0.0000000
105	5.10	5.00	3.48000	122.89438	7.6	0.062890	0.02	1.98	1.05	52.70	5533.5	5270.0	55.3	31205.	0.012532	1.506	0.062890	0.0000000
106	5.00	4.90	3.48000	122.89438	7.6	0.062890	0.02	2.00	1.05	52.70	5533.5	5270.0	55.3	31537.	0.012665	1.506	0.062890	0.0000000
107	4.90	4.80	3.48000	122.89438	7.6	0.062890	0.02	2.01	1.05	52.70	5533.5	5270.0	55.3	31869.	0.012798	1.506	0.062890	0.0000000
108	4.80	4.70	3.48000	122.89438	7.6	0.062890	0.02	2.03	1.05	52.70	5533.5	5270.0	55.3	32201.	0.012932	1.506	0.062890	0.0000000
109	4.70	4.60	3.48000	122.89438	7.6	0.062890	0.02	2.05	1.05	52.70	5533.5	5270.0	55.3	32533.	0.013065	1.506	0.062890	0.0000000
110	4.60	4.50	3.48000	122.89438	7.6	0.062890	0.02	2.07	1.05	52.70	5533.5	5270.0	55.3	32865.	0.013198	1.506	0.062890	0.0000000
111	4.50	4.40	3.48000	122.89438	7.6	0.062890	0.02	2.09	1.05	52.70	5533.5	5270.0	55.3	33197.	0.013332	1.506	0.062890	0.0000000
112	4.40	4.30	3.48000	122.89438	7.6	0.062890	0.02	2.11	1.05	52.70	5533.5	5270.0	55.3	33529.	0.013465	1.506	0.062890	0.0000000
113	4.30	4.20	3.48000	122.89438	7.6	0.062890	0.02	2.12	1.05	52.70	5533.5	5270.0	55.3	33861.	0.013598	1.506	0.062890	0.0000000
114	4.20	4.10	3.48000	122.89438	7.6	0.062890	0.02	2.14	1.05	52.70	5533.5	5270.0	55.3	34193.	0.013732	1.506	0.062890	0.0000000
115	4.10	4.00	3.48000	122.89438	7.6	0.062890	0.02	2.16	1.05	52.70	5533.5	5270.0	55.3	34525.	0.013865	1.506	0.062890	0.0000000
116	4.00	3.90	3.48000	122.89438	7.6	0.062890	0.02	2.18	1.05	52.70	5533.5	5270.0	55.3	34857.	0.013998	1.506	0.062890	0.0000000
117	3.90	3.80	3.48000	122.89438	7.6	0.062890	0.02	2.20	1.05	52.70	5533.5	5270.0	55.3	35189.	0.014132	1.506	0.062890	0.0000000
118	3.80	3.70	3.48000	122.89438	7.6	0.062890	0.02	2.22	1.05	52.70	5533.5	5270.0	55.3	35521.	0.014265	1.506	0.062890	0.0000000
119	3.70	3.60	3.48000	122.89438	7.6	0.062890	0.02	2.23	1.05	52.70	5533.5	5270.0	55.3	35853.	0.014398	1.506	0.062890	0.0000000
120	3.60	3.50	3.48000	122.89438	7.6	0.062890	0.02	2.25	1.05	52.70	5533.5	5270.0	55.3	36185.	0.014532	1.506	0.062890	0.0000000
121	3.50	3.40	3.48000	122.89438	7.6	0.062890	0.02	2.27	1.05	52.70	5533.5	5270.0	55.3	36517.	0.014665	1.506	0.062890	0.0000000
122	3.40	3.30	3.48000	122.89438	7.6	0.062890	0.02	2.29	1.05	52.70	5533.5	5270.0	55.3	36849.	0.014798	1.506	0.062890	0.0000000
123	3.30	3.20	3.48000	122.89438	7.6	0.062890	0.02	2.31	1.05	52.70	5533.5	5270.0	55.3	37181.	0.014932	1.506	0.062890	0.0000000
124	3.20	3.10	3.48000	122.89438	7.6	0.062890	0.02	2.33	1.05	52.70	5533.5	5270.0	55.3	37513.	0.015065	1.506	0.062890	0.0000000
125	3.10	3.00	3.48000	122.89438	7.6	0.062890	0.02	2.34	1.05	52.70	5533.5	5270.0	55.3	37845.	0.015198	1.506	0.062890	0.0000000
126	3.00	2.90	3.48000	122.89438	7.6	0.062890	0.02	2.36	1.05	52.70	5533.5	5270.0	55.3	38177.	0.015332	1.506	0.062890	0.0000000
127	2.90	2.80	3.48000	122.89438	7.6	0.062890	0.02	2.38	1.05	52.70	5533.5	5270.0	55.3	38509.	0.015465	1.506	0.062890	0.0000000
128	2.80	2.70	3.48000	122.89438	7.6	0.062890	0.02	2.40	1.05	52.70	5533.5	5270.0	55.3	38841.	0.015598	1.506	0.062890	0.0000000
129	2.70	2.60	3.48000	122.89438	7.6	0.062890	0.02	2.42	1.05	52.70	5533.5	5270.0	55.3	39173.	0.015732	1.506	0.062890	0.0000000
130	2.60	2.50	3.48000	122.89438	7.6	0.062890	0.02	2.44	1.05	52.70	5533.5	5270.0	55.3	39505.	0.015865	1.506	0.062890	0.0000000
TOT							0.70				210273.0	200260.0						0.0000000
AVG						0.062890			1.05	52.70			55.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 6 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
93	6.200	7.70	1.02	0.18	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.45	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	6.100	7.70	1.02	0.18	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.43	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6.000	7.70	1.02	0.18	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.41	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5.900	7.70	1.02	0.18	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.40	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	5.800	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.38	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	5.700	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.37	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	5.600	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.36	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	5.500	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.35	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	5.400	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.34	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	5.300	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.34	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	5.200	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.33	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	5.100	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.33	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	5.000	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	4.900	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	4.800	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

108	4.700	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	4.600	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	4.500	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.31	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	4.400	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.31	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	4.300	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	4.200	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	4.100	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	4.000	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	3.900	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	3.800	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	3.700	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.33	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	3.600	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.33	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	3.500	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.33	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	3.400	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.34	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	3.300	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.34	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	3.200	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.34	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	3.100	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.35	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	3.000	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.35	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	2.900	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.35	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	2.800	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.36	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	2.700	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.36	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	2.600	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.37	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	2.500	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.37	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.87	0.12	0.20	0.00	0.00	0.04	0.50	0.00	2.00			0.12	0.20	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 6 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
93	6.200	28.90	0.12	192.88	13.44	1.97	14.00	4.08	14.00	4.08	3.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
94	6.100	28.90	0.12	192.88	13.44	1.96	13.92	4.05	13.92	4.05	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
95	6.000	28.90	0.12	192.88	13.44	1.95	13.84	4.01	13.84	4.01	3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
96	5.900	28.90	0.12	192.88	13.44	1.94	13.76	3.98	13.76	3.98	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
97	5.800	28.90	0.12	192.88	13.44	1.93	13.68	3.94	13.68	3.94	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
98	5.700	28.90	0.12	192.88	13.44	1.93	13.60	3.90	13.60	3.90	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
99	5.600	28.90	0.12	192.88	13.44	1.92	13.52	3.87	13.52	3.87	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
100	5.500	28.90	0.12	192.88	13.44	1.91	13.44	3.84	13.44	3.84	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
101	5.400	28.90	0.12	192.88	13.44	1.91	13.37	3.80	13.37	3.80	3.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
102	5.300	28.90	0.13	192.88	13.44	1.91	13.29	3.77	13.29	3.77	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
103	5.200	28.90	0.13	192.88	13.44	1.90	13.22	3.74	13.22	3.74	3.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
104	5.100	28.90	0.13	192.88	13.44	1.90	13.14	3.70	13.14	3.70	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
105	5.000	28.90	0.13	192.88	13.44	1.90	13.07	3.67	13.07	3.67	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
106	4.900	28.90	0.13	192.88	13.44	1.90	12.99	3.64	12.99	3.64	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
107	4.800	28.90	0.13	192.88	13.44	1.89	12.92	3.61	12.92	3.61	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
108	4.700	28.90	0.13	192.88	13.44	1.89	12.85	3.58	12.85	3.58	3.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
109	4.600	28.90	0.13	192.88	13.44	1.89	12.78	3.55	12.78	3.55	3.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
110	4.500	28.90	0.13	192.88	13.44	1.89	12.70	3.52	12.70	3.52	3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
111	4.400	28.90	0.13	192.88	13.44	1.89	12.63	3.49	12.63	3.49	3.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
112	4.300	28.90	0.13	192.88	13.44	1.89	12.56	3.46	12.56	3.46	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
113	4.200	28.90	0.13	192.88	13.44	1.89	12.49	3.43	12.49	3.43	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
114	4.100	28.90	0.13	192.88	13.44	1.89	12.42	3.40	12.42	3.40	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
115	4.000	28.90	0.13	192.88	13.44	1.90	12.36	3.37	12.36	3.37	3.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
116	3.900	28.90	0.13	192.88	13.44	1.90	12.29	3.34	12.29	3.34	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
117	3.800	28.90	0.13	192.88	13.44	1.90	12.22	3.32	12.22	3.32	3.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
118	3.700	28.90	0.13	192.88	13.44	1.90	12.15	3.29	12.15	3.29	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
119	3.600	28.90	0.13	192.88	13.44	1.90	12.09	3.26	12.09	3.26	3.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
120	3.500	28.90	0.13	192.88	13.44	1.90	12.02	3.23	12.02	3.23	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
121	3.400	28.90	0.14	192.88	13.44	1.90	11.95	3.21	11.95	3.21	3.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
122	3.300	28.90	0.14	192.88	13.44	1.91	11.89	3.18	11.89	3.18	3.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
123	3.200	28.90	0.14	192.88	13.44	1.91	11.82	3.16	11.82	3.16	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
124	3.100	28.90	0.14	192.88	13.44	1.91	11.76	3.13	11.76	3.13	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
125	3.000	28.90	0.14	192.88	13.44	1.91	11.70	3.11	11.70	3.11	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
126	2.900	28.90	0.14	192.88	13.44	1.92	11.63	3.08	11.63	3.08	3.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
127	2.800	28.90	0.14	192.88	13.44	1.92	11.57	3.06	11.57	3.06	3.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
128	2.700	28.90	0.14	192.88	13.44	1.92	11.51	3.03	11.51	3.03	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
129	2.600	28.90	0.14	192.88	13.44	1.92	11.44	3.01	11.44	3.01	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
130	2.500	28.90	0.14	192.88	13.44	1.92	11.38	2.98	11.38	2.98	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 6 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
93	6.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
94	6.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
95	6.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
96	5.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
97	5.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
98	5.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
99	5.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
100	5.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
101	5.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
102	5.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
103	5.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
104	5.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
105	5.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
106	4.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
107	4.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
108	4.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
109	4.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
110	4.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
111	4.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
112	4.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
113	4.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
114	4.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
115	4.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
116	3.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
117	3.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
118	3.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
119	3.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
120	3.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
121	3.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
122	3.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
123	3.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
124	3.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
125	3.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
126	2.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
127	2.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
128	2.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
129	2.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
130	2.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 7 BLB FROM RKM 2.5 TO ICWW CONF WATER QUALITY MODEL CALIBRATION RUN

********** INPUTS FOR REACH 7 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
131	UPR RCH	3.48000	122.89438	28.90	0.14	192.88	13.44	1.92	11.38	2.98	11.38	2.98	3.10	0.00	0.00	0.00	87.80	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 7 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s

131	2.50	2.40	3.48000	122.89438	7.6	0.057612	0.02	2.46	1.49	40.54	6040.5	4054.0	60.4	39761.	0.014628	1.847	0.057612	0.0000000
132	2.40	2.30	3.48000	122.89438	7.6	0.057612	0.02	2.48	1.49	40.54	6040.5	4054.0	60.4	40016.	0.014722	1.847	0.057612	0.0000000
133	2.30	2.20	3.48000	122.89438	7.6	0.057612	0.02	2.50	1.49	40.54	6040.5	4054.0	60.4	40272.	0.014816	1.847	0.057612	0.0000000
134	2.20	2.10	3.48000	122.89438	7.6	0.057612	0.02	2.52	1.49	40.54	6040.5	4054.0	60.4	40527.	0.014909	1.847	0.057612	0.0000000
135	2.10	2.00	3.48000	122.89438	7.6	0.057612	0.02	2.54	1.49	40.54	6040.5	4054.0	60.4	40782.	0.015003	1.847	0.057612	0.0000000
136	2.00	1.90	3.48000	122.89438	7.6	0.057612	0.02	2.56	1.49	40.54	6040.5	4054.0	60.4	41038.	0.015097	1.847	0.057612	0.0000000
137	1.90	1.80	3.48000	122.89438	7.6	0.057612	0.02	2.58	1.49	40.54	6040.5	4054.0	60.4	41293.	0.015191	1.847	0.057612	0.0000000
138	1.80	1.70	3.48000	122.89438	7.6	0.057612	0.02	2.60	1.49	40.54	6040.5	4054.0	60.4	41549.	0.015285	1.847	0.057612	0.0000000
139	1.70	1.60	3.48000	122.89438	7.6	0.057612	0.02	2.62	1.49	40.54	6040.5	4054.0	60.4	41804.	0.015379	1.847	0.057612	0.0000000
140	1.60	1.50	3.48000	122.89438	7.6	0.057612	0.02	2.64	1.49	40.54	6040.5	4054.0	60.4	42059.	0.015473	1.847	0.057612	0.0000000
141	1.50	1.40	3.48000	122.89438	7.6	0.057612	0.02	2.66	1.49	40.54	6040.5	4054.0	60.4	42315.	0.015567	1.847	0.057612	0.0000000
142	1.40	1.30	3.48000	122.89438	7.6	0.057612	0.02	2.68	1.49	40.54	6040.5	4054.0	60.4	42570.	0.015661	1.847	0.057612	0.0000000
143	1.30	1.20	3.48000	122.89438	7.6	0.057612	0.02	2.70	1.49	40.54	6040.5	4054.0	60.4	42826.	0.015755	1.847	0.057612	0.0000000
144	1.20	1.10	3.48000	122.89438	7.6	0.057612	0.02	2.72	1.49	40.54	6040.5	4054.0	60.4	43081.	0.015849	1.847	0.057612	0.0000000
145	1.10	1.00	3.48000	122.89438	7.6	0.057612	0.02	2.74	1.49	40.54	6040.5	4054.0	60.4	43336.	0.015943	1.847	0.057612	0.0000000
146	1.00	0.90	3.48000	122.89438	7.6	0.057612	0.02	2.76	1.49	40.54	6040.5	4054.0	60.4	43592.	0.016037	1.847	0.057612	0.0000000
147	0.90	0.80	3.48000	122.89438	7.6	0.057612	0.02	2.78	1.49	40.54	6040.5	4054.0	60.4	43847.	0.016131	1.847	0.057612	0.0000000
148	0.80	0.70	3.48000	122.89438	7.6	0.057612	0.02	2.80	1.49	40.54	6040.5	4054.0	60.4	44103.	0.016225	1.847	0.057612	0.0000000
149	0.70	0.60	3.48000	122.89438	7.6	0.057612	0.02	2.82	1.49	40.54	6040.5	4054.0	60.4	44358.	0.016319	1.847	0.057612	0.0000000
150	0.60	0.50	3.48000	122.89438	7.6	0.057612	0.02	2.84	1.49	40.54	6040.5	4054.0	60.4	44614.	0.016413	1.847	0.057612	0.0000000
151	0.50	0.40	3.48000	122.89438	7.6	0.057612	0.02	2.86	1.49	40.54	6040.5	4054.0	60.4	44869.	0.016507	1.847	0.057612	0.0000000
152	0.40	0.30	3.48000	122.89438	7.6	0.057612	0.02	2.88	1.49	40.54	6040.5	4054.0	60.4	45124.	0.016601	1.847	0.057612	0.0000000
153	0.30	0.20	3.48000	122.89438	7.6	0.057612	0.02	2.90	1.49	40.54	6040.5	4054.0	60.4	45380.	0.016695	1.847	0.057612	0.0000000
154	0.20	0.10	3.48000	122.89438	7.6	0.057612	0.02	2.92	1.49	40.54	6040.5	4054.0	60.4	45635.	0.016789	1.847	0.057612	0.0000000
155	0.10	0.00	3.48000	122.89438	7.6	0.057612	0.02	2.94	1.49	40.54	6040.5	4054.0	60.4	45891.	0.016883	1.847	0.057612	0.0000000
TOT							0.50				151011.5	101350.0						0.0000000
AVG						0.057612			1.49	40.54			60.4					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 7 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
131	2.400	7.70	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	2.300	7.70	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	2.200	7.70	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	2.100	7.70	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	2.000	7.70	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	1.900	7.70	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	1.800	7.69	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	1.700	7.69	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.54	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	1.600	7.69	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.54	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	1.500	7.69	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.54	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	1.400	7.69	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.54	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	1.300	7.69	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.55	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	1.200	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.55	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	1.100	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.55	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	1.000	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.55	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	0.900	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.56	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.800	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.56	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	0.700	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.56	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	0.600	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.57	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.500	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.57	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	0.400	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.58	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.300	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.59	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.200	7.69	0.73	0.18	0.25	0.00	0.00	0.06	0.62	0.00	2.64	2.64	2.63	0.15	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	0.100	7.69	0.73	0.18	0.25	0.00	0.00	0.06	0.62	0.00	2.64	2.64	2.64	0.15	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.000	7.69	0.73	0.18	0.25	0.00	0.00	0.06	0.62	0.00	2.64	2.64	2.64	0.16	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.62	0.12	0.20	0.00	0.00	0.04	0.50	0.00	1.50			0.12	0.20	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 7 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
131	2.400	28.90	0.14	192.88	13.44	1.92	11.32	2.96	11.32	2.96	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
132	2.300	28.91	0.14	192.88	13.44	1.92	11.27	2.94	11.27	2.94	3.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
133	2.200	28.91	0.14	192.88	13.44	1.92	11.21	2.93	11.21	2.93	3.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
134	2.100	28.92	0.14	192.88	13.44	1.92	11.16	2.91	11.16	2.91	3.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
135	2.000	28.92	0.14	192.88	13.44	1.93	11.11	2.89	11.11	2.89	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
136	1.900	28.92	0.14	192.88	13.44	1.93	11.05	2.87	11.05	2.87	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
137	1.800	28.93	0.14	192.88	13.44	1.93	11.00	2.85	11.00	2.85	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
138	1.700	28.93	0.14	192.88	13.44	1.93	10.95	2.83	10.95	2.83	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
139	1.600	28.94	0.14	192.88	13.44	1.93	10.89	2.81	10.89	2.81	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
140	1.500	28.94	0.14	192.88	13.44	1.93	10.84	2.80	10.84	2.80	2.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
141	1.400	28.94	0.14	192.88	13.44	1.93	10.79	2.78	10.79	2.78	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
142	1.300	28.95	0.14	192.88	13.44	1.93	10.74	2.76	10.74	2.76	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
143	1.200	28.95	0.13	192.88	13.44	1.93	10.69	2.74	10.69	2.74	2.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
144	1.100	28.96	0.13	192.88	13.44	1.94	10.64	2.73	10.64	2.73	2.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
145	1.000	28.96	0.13	192.88	13.44	1.94	10.59	2.71	10.59	2.71	2.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
146	0.900	28.96	0.13	192.88	13.44	1.94	10.54	2.69	10.54	2.69	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
147	0.800	28.97	0.13	192.88	13.44	1.94	10.49	2.68	10.49	2.68	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
148	0.700	28.97	0.13	192.88	13.44	1.94	10.44	2.66	10.44	2.66	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
149	0.600	28.98	0.13	192.89	13.44	1.95	10.39	2.65	10.39	2.65	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
150	0.500	28.98	0.13	192.91	13.44	1.95	10.34	2.63	10.34	2.63	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
151	0.400	28.98	0.13	192.99	13.46	1.95	10.29	2.61	10.29	2.61	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
152	0.300	28.99	0.13	193.32	13.55	1.96	10.22	2.59	10.22	2.59	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
153	0.200	28.99	0.13	194.68	13.88	1.99	10.07	2.53	10.07	2.53	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
154	0.100	29.00	0.13	200.29	15.25	2.12	9.62	2.33	9.62	2.33	2.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
155	0.000	29.00	0.13	223.40	20.89	2.64	7.91	1.57	7.91	1.57	2.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 7 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
131	2.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
132	2.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
133	2.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
134	2.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
135	2.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
136	1.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
137	1.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
138	1.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
139	1.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
140	1.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
141	1.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
142	1.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
143	1.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
144	1.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
145	1.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
146	0.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
147	0.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
148	0.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
149	0.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
150	0.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
151	0.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
152	0.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
153	0.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
154	0.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
155	0.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

REACH SUMMARY REPORT: BAYOU L'EAU BLEU

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT RCH END m3/s	AVG VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT RCH END cfs	AVG VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BLB FROM CC TO BLB01	15.50	14.90	0.60	0.15	3.23790	0.04756	1.220	55.50	114.345	0.156	4.003	182.09
2	BLB01 TO BARGE CANAL	14.90	13.30	1.60	0.39	3.48000	0.04803	1.220	55.50	122.895	0.158	4.003	182.09
3	BARGE CANAL TO RKM 12.0	13.30	12.00	1.30	0.22	3.48000	0.06920	1.270	39.60	122.895	0.227	4.167	129.92
4	BLB FROM RKM 12.0 TO RKM 8.4	12.00	8.40	3.60	0.60	3.48000	0.06920	1.270	39.60	122.895	0.227	4.167	129.92
5	BLB FROM RKM 8.4 TO BLB05	8.40	6.30	2.10	0.39	3.48000	0.06289	1.050	52.70	122.895	0.206	3.445	172.90
6	BLB FROM BLB05 TO RKM 2.5	6.30	2.50	3.80	0.70	3.48000	0.06289	1.050	52.70	122.895	0.206	3.445	172.90
7	BLB FROM RKM 2.5 TO ICWW CONF	2.50	0.00	2.50	0.50	3.48000	0.05761	1.490	40.54	122.895	0.189	4.888	133.01

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

STREAM SUMMARY REPORT: BAYOU L'EAU BLEU

TRAVEL TIME	=	2.94 DAYS			
MAXIMUM EFFLUENT	=	7.56 PERCENT			
FLOW	=	3.21680	TO	3.48000	m^3/s
DISPERSION	=	1.2895	TO	1.9421	m^2/s
VELOCITY	=	0.04751	TO	0.06920	m/s
DEPTH	=	1.05	TO	1.49	m
WIDTH	=	39.60	TO	55.50	m
BOD DECAY	=	0.17	TO	0.18	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	1.74	TO	4.27	$g/m^2/d$
NH3 SED SOURCE	=	0.00	TO	0.00	$g/m^2/d$
PO4 SED SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.73	TO	1.02	per day
BOD SETTLING	=	0.24	TO	0.49	per day
NBOD DECAY	=	0.12	TO	0.19	per day
NBOD SETTLING	=	0.12	TO	0.25	per day
TEMPERATURE	=	28.50	TO	29.00	deg C
DISSOLVED OXYGEN	=	1.89	TO	5.02	mg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION RUN

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD1 kg/d	BOD2 kg/d	NBOD kg/d	kg/d	kg/d	ORG-P kg/d	PO4-P kg/d	CHL A	PERIP	NCM	SALIN
HEADWATER FLOW	3.21680	1423.01	4324.61	1008.89	994.99	0.00	0.00	0.00	0.00	0.00		0.00	0.00
INCREMENTAL INFLOW	0.00000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
INCREMENTAL OUTFLOW	0.00000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
WASTELOADS	0.26320	107.17	366.84	83.25	94.85	0.00	0.00	0.00	0.00	0.00		0.00	0.00
WITHDRAWLS	0.00000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
EVAPORATION	0.00000												
FLOW THRU LOWER BNDRY	-3.48000	-793.15	-2376.97	-472.33	-809.06	0.00	0.00	0.00	0.00	0.00		0.00	0.00
DISPERSION THRU LOWER BNDRY		206.70	-673.95	-302.88	-29.08	0.00	0.00	0.00	0.00	0.00		0.00	0.00

DISPERSION THRU HDWTR BNDRY		14.64	30.87	-7.83	-0.32	0.00	0.00	0.00	0.00	0.00		0.00	0.00
NON-POINT INPUT		0.00	3800.00	1130.00	835.00	0.00	0.00	0.00	0.00			0.00	
NATURAL REAERATION		4010.97											
DAM REAERATION		0.00											
SOD BACKGROUND		-2029.81											
BOD1 DECAY		-2230.52	-2230.52										
BOD1 SETTLING		0.00	-3240.98										
ANAEROBIC BOD1 DECAY			0.00										
BOD2 DECAY		-184.69		-184.69									
BOD2 SETTLING		0.00		-1254.42									
ANAEROBIC BOD2 DECAY				0.00									
BOD2 HYDROLYSIS			0.00	0.00									
NBOD DECAY		-524.61			0.00	0.00							
NBOD SETTLING					0.00	0.00							
NH3-N DECAY (NITRIFICATION)		0.00				0.00	0.00						
NH3-N BACKGROUND SEDIMENT SOURCE						0.00							
DENITRIFICATION			0.00				0.00						
ORG-P HYDROLYSIS								0.00	0.00				
ORG-P SETTLING								0.00	0.00				
PO4-P BACKGROUND SEDIMENT SOURCE									0.00				
PHYTOPLANKTON GROWTH/PHOTOSYNTHESIS		0.00				0.00	0.00		0.00	0.00			
PHYTOPLANKTON RESPIRATION/EXCRETION		0.00				0.00			0.00	0.00			
PHYTOPLANKTON SETTLING		0.00				0.00			0.00	0.00			
PHYTOPLANKTON DEATH			0.00	0.00	0.00			0.00		0.00			
PERIPHYTON GROWTH/PHOTOSYNTHESIS		0.00				0.00	0.00		0.00		0.00		
PERIPHYTON RESPIRATION/EXCRETION		0.00				0.00			0.00		0.00		
PERIPHYTON DEATH			0.00	0.00	0.00			0.00			0.00		
NCM DECAY		0.00										0.00	
NCM SETTLING		0.00										0.00	
TOTAL INPUTS	3.48000	5762.50	8522.33	2222.14	1924.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL OUTPUTS	-3.48000	-5762.78	-8522.42	-2222.15	-838.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET CONVERGENCE ERROR	0.00000	-0.28	-0.09	-0.01	1086.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

.....EXECUTION COMPLETED

Appendix B2 – Calibration Justification

Bayou L'Eau Bleu 120303 Calibration Justification			
DATA TYPE 3 - PROGRAM CONSTANTS			
CONSTANT NAME	VALUE	UNITS	DATA SOURCE
DISPERSION EQUATION	3		Equation used to account for all modes of transport.
TIDE HEIGHT	0.063		Calculated from BLB07 continuous monitor
PERIOD OF TIDAL RISE	13		Calculated from BLB07 continuous monitor
K2 MAXIMUM	25	1/day at 20 deg C	EPA Policy in the absence of a measured value.
HYDRAULIC CALCULATION METHOD	2		The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditions. This method allows the model to predict a more accurate depth and width during low flow conditions.
SETTLING RATE UNITS	2		By making the settling rate a velocity the rate becomes dependent upon the depth.
WIND VELOCITY	0.68		Calculated from Houma Weather Station.
ALGAE OXYGEN PRODUCTION	0		Standard practice for steady state calibration to a wide variation in DO.
KL MINIMUM	0.7	m/day	The minimum KL of 2.3 ft/day converted to 0.70 m/day.
OCEAN EXCHANGE RATION	1	m/day	Default value
EFFECTIVE BOD1	0	m/day	Set to 0 to override calcuation of BOD1
EFFECTIVE BOD2	0	m/day	Set to 0 to override calcuation of BOD2

Bayou L'Eau Bleu 120303 Calibration Justification						
DATA TYPE 8 - REACH IDENTIFICATION DATA						
Reach	**ID**	**Name**	**Upstream River Kilometer**	**Downstream River Kilometer**	**Element Length, meters**	**Data Source**
1	LB	BLB FROM CC TO BLB01	15.50	14.90	100.0000	ARC MAP Calc.
2	LB	BLB01 TO BARGE CANAL	14.90	13.30	100.0000	ARC MAP Calc.
3	LB	BARGE CANAL TO RKM 12.0	13.30	12.00	100.0000	ARC MAP Calc.
4	LB	BLB FROM RKM 12.0 TO RKM 8.4	12.00	8.40	100.0000	ARC MAP Calc.
5	LB	BLB FROM RKM 8.4 TO BLB05	8.40	6.30	100.0000	ARC MAP Calc.
6	LB	BLB FROM BLB05 TO RKM 2.5	6.30	2.50	100.0000	ARC MAP Calc.
7	LB	BLB FROM RKM 2.5 TO ICWW	2.50	0.00	100.0000	ARC MAP Calc.

Bayou L'Eau Bleu 120303 Calibration Justification									
		Data Type 9 - Advective Hydraulic Coefficients							
Reach	Name	Width Coeff. "a"	Width Exp. "b"	Width Const. "c"	Data Source	Depth Coeff. "d"	Depth Exp. "e"	Depth Const. "f"	Data Source
1	BLB FROM CC TO BLB01	0	0	55.500	BLB-02	0	0	1.220	BLB-02
2	BLB01 TO BARGE CANAL	0	0	55.500	BLB-02	0	0	1.220	BLB-02
3	BARGE CANAL TO RKM 12.0	0	0	39.600	BLB-04	0	0	1.270	BLB-04
4	BLB FROM RKM 12.0 TO RKM 8.4	0	0	39.600	BLB-04	0	0	1.270	BLB-04
5	BLB FROM RKM 8.4 TO BLB05	0	0	52.700	BLB-05	0	0	1.050	BLB-05
6	BLB FROM BLB05 TO RKM 2.5	0	0	52.700	BLB-05	0	0	1.050	BLB-05
7	BLB FROM RKM 2.5 TO ICWW	0	0	40.540	BLB-07	0	0	1.490	BLB-07

Bayou L'Eau Bleu 120303 Calibration Justification							
DATA TYPE 10 - DISPERSIVE HYDRAULIC COEFFICIENTS							
Reach	Tidal Range	Data Source	a	b	c	d	Data Source
1	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
2	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
3	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
4	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
5	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
6	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
7	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion

Bayou L'Eau Bleu 120303 Calibration Justification							
DATA TYPE 11-INITIAL CONDITIONS							
Reach	**Name**	**Temp, deg C**	**Sal, ppt**	**DO, mg/l**	**Data Source**	**Chlorophyll a**	**Data Source**
1	BLB FROM CC TO BLB01	28.50	0.09	4.91	INSITU AVG (CC-01 + BLB-01)	92.20	BLB-01
2	BLB01 TO BARGE CANAL	28.50	0.09	4.44	INSITU BLB-01	92.20	BLB-01
3	BARGE CANAL TO RKM 12.0	28.80	0.09	3.64	INSITU AVG (BLB-01 + BLB-04)	92.20	BLB-01
4	BLB FROM RKM 12.0 TO RKM 8.4	29.00	0.09	2.83	INSITU BLB-04	92.20	BLB-01
5	BLB FROM RKM 8.4 TO BLB05	28.90	0.09	1.91	INSITU BLB-05	87.80	BLB-05
6	BLB FROM BLB05 TO RKM 2.5	28.90	0.12	1.94	INSITU AVG (BLB-05 + BLB-07)	87.80	BLB-05
7	BLB FROM RKM 2.5 TO ICWW	28.90	0.14	1.96	INSITU BLB-07	87.80	BLB-05

Bayou L'Eau Bleu 120303 Calibration Justification						
		DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS				
REACH	**NAME**	**K2 OPT**	**Data Source**	**a**	**BKGRND SOD, gmO2/m2/day at 20 deg C**	**Data Source**
1	BLB FROM CC TO BLB01	11	Texas Equation		2.50	Calibration
2	BLB01 TO BARGE CANAL	11	Texas Equation		1.50	Calibration
3	BARGE CANAL TO RKM 12.0	11	Texas Equation		1.00	Calibration
4	BLB FROM RKM 12.0 TO RKM 8.4	11	Texas Equation		1.00	Calibration
5	BLB FROM RKM 8.4 TO BLB05	11	Texas Equation		2.00	Calibration
6	BLB FROM BLB05 TO RKM 2.5	11	Texas Equation		2.00	Calibration
6	BLB FROM RKM 2.5 TO ICWW	11	Texas Equation		1.50	Calibration

Bayou L'Eau Bleu 120303 Calibration Justification

DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS

Aerobic BOD1 Dec Rate (1/day)	Data Source	BOD1 SETT RATE (1/day)	Data Source	Aerobic BOD2 Dec Rate (1/day)	Data Source	BOD2 SETT RATE (1/day)	Data Source
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.4	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.5	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.5	Calibration

Bayou L'Eau Bleu 120303 Calibration Justification					
DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS					
Reach	**Name**	**NBOD decay rate, 1/day**	**Data Source**	**NBOD settling rate, 1/day**	**Data Source**
1	BLB FROM CC TO BLB01	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
2	BLB01 TO BARGE CANAL	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
3	BARGE CANAL TO RKM 12.0	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
4	BLB FROM RKM 12.0 TO RKM 8.4	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
5	BLB FROM RKM 8.4 TO BLB05	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
6	BLB FROM BLB05 TO RKM 2.5	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.20	Calibration
7	BLB FROM RKM 2.5 TO ICWW	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.20	Calibration

Bayou L'Eau Bleu 120303 Calibration Justification						
DATA TYPE 19 - NONPOINT SOURCES						
Reach	**Reach Name**	**Length of Reach, km**	**UCBOD1, kg/day**	**UCBOD2, kg/day**	**NBOD, kg/day**	**Data Source**
1	BLB FROM CC TO BLB01	0.60	0.00	150.00	50.00	Calibration
2	BLB01 TO BARGE CANAL	1.60	1300.00	250.00	300.00	Calibration
3	BARGE CANAL TO RKM 12.0	1.30	1100.00	250.00	350.00	Calibration
4	BLB FROM RKM 12.0 TO RKM 8.4	3.60	700.00	80.00	10.00	Calibration
5	BLB FROM RKM 8.4 TO BLB05	2.10	100.00	100.00	30.00	Calibration
6	BLB FROM BLB05 TO RKM 2.5	3.80	300.00	150.00	20.00	Calibration
7	BLB FROM RKM 2.5 TO ICWW	2.50	300.00	150.00	75.00	Calibration

Bayou L'Eau Bleu 120303 Calibration Justification										
DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES										
Headwater Name	Element No.	Logical Unit Number	Headwater Flow, cms	Data Source	Temp, deg C	Salinity	Conductivity	Chlorides	Headwater Exchange	Data Source
Headwater 1	1	1	3.2168	The headwater flow was assumed to be 93% of the flow calculated from the dye study (3.48 cms) minus the flow from Tom Foret Canal.	28.8	0.09	193.0	13.40	1.00	Average CC-01 and CC-02. Bayou L'Eau Bleu has two dispersvie boundaries- Company Canal and ICWW

Bayou L'Eau Bleu 120303 Calibration Justification					
DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN					
Headwater Name	Dissolved Oxygen, mg/L	UCBOD1, mg/l	UCBOD2, mg/l	NBOD, mg/l	Data Source
Headwater 1	5.12	15.56	3.63	3.58	Average CC-01 and CC-02.

Bayou L'Eau Bleu 120303 Calibration Justification					
DATA TYPES 22 - HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES					
Headwater Name	**Chlorophyll a, ug/L**	**Date Source**			
Headwater 1	108	CC-02			

Bayou L'Eau Bleu 120303 Calibration Justification								
	DATA TYPES 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES							
Wasteload / Withdrawal Name	**EL #**	**Flow, cms**	**Data Source**	**Temperature, deg C**	**Salinity**	**Conductivity**	**Chlorides**	**Data Source**
Tom Foret Canal	6	0.0211	Assumed flow for Tom Foret Canal to be the average flow for the Lockport STP for the months of June 2004 and July 2004. 0.482 mgd = 0.0211 cms	29	0.13	277.0	18.6	TFC-01
Barge Canal	22	0.2421	The headwater flow was assumed to be 7% of the flow calculated from the dye study (3.48 cms) minus the flow from Tom Foret Canal.	28.7	0.08	184.0	13.5	CC-02

Bayou L'Eau Bleu 120303 Calibration Justification

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

Wasteload / Withdrawal Name	EL #	DO, mg/l	UCBOD1, mg/l	UCBOD2, mg/l	UNBOD, mg/l	Data Source
Tom Foret Canal	6	2.91	7.43	3.67	4.64	TFC-01
Barge Canal	22	4.87	16.89	3.66	4.13	CC-02

Bayou L'Eau Bleu 120303 Calibration Justification

DATA TYPES 26 - WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES

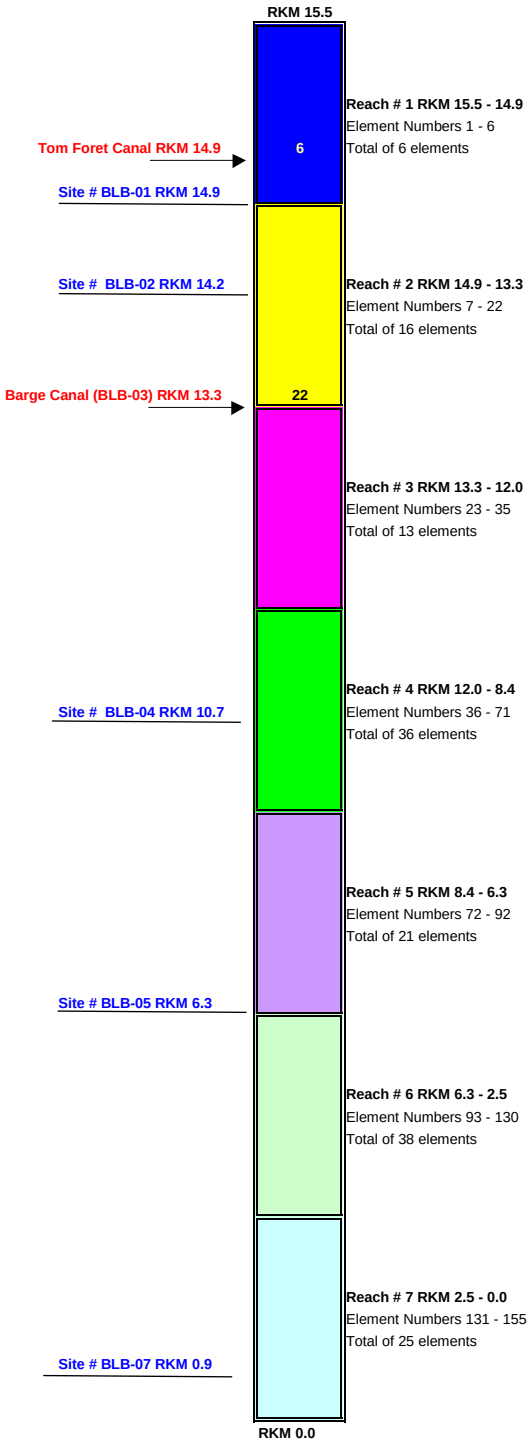
Wasteload / Withdrawal Name	EL #	Chl a, ug/L	Data Source	Phosphorus	Coliform	Nonconservatives	Data Source
Tom Foret Canal	6						
Barge Canal	22	108	CC-02				

Bayou L'Eau Bleu 120303 Calibration Justification			
DATA TYPES 27 - LOWER BOUNDARY CONDITIONS			
Parameter	**Value**	**Units**	**Data Source**
TEMPERATURE	29.00	^{O}C	ICWW-01 Insitu
SALINITY	0.13	ppt	ICWW-01 Insitu
CHLORIDES	32.5	ppm	ICWW-01 Lab Data
CONDUCTIVITY	271.00	umhos/cm	ICWW-01 Insitu
DISSOLVED OXYGEN	3.71	mg/L	ICWW-01
CBOD1	4.410	mg/L	ICWW-01 Lab Data
CBOD2	0.000	mg/L	ICWW-01 Lab Data
CHLOROPHYLL A	87.8	ug/L	BLB-05
NBOD	2.540	mg/L	ICWW-01 Lab Data

Appendix C - Calibration Model Development

Appendix C1 – Vector Diagram

Bayou L'Eau Bleu Model Layout Subsegment 120303 RKM 15.5 to RKM 0.0



Appendix C2 – Reach Set-up

BAYOU L'EAU BLEU 120303					Modeled Length	Element Length				
Reach #	Description	Headwater Yes/No	Starting modeled Kilometer	Ending modeled Kilometer	kilometers	kilometers	Element Count	Cumulative Elements	Begin Element #	End Element #
1	CC - BLB01	Yes	15.5	14.9	0.60	0.100	6	6	1	6
2	BLB01 - BARGE CANAL	No	14.9	13.3	1.60	0.100	16	22	7	22
3	BARGE CANAL - RKM 12.0	No	13.3	12.0	1.30	0.100	13	35	23	35
4	RKM 12.0 - RKM 8.4	No	12.0	8.4	3.60	0.100	36	71	36	71
5	RKM 8.4 - BLB05	No	8.4	6.3	2.10	0.100	21	92	72	92
6	BLB05 - RKM 2.5	No	6.3	2.5	3.80	0.100	38	130	93	130
7	RKM 2.5 - ICWW	No	2.5	0.0	2.50	0.100	25	155	131	155

Appendix C3 – Calibration Loading

Calibration Model Non-Point Load Equivalent Calculations:

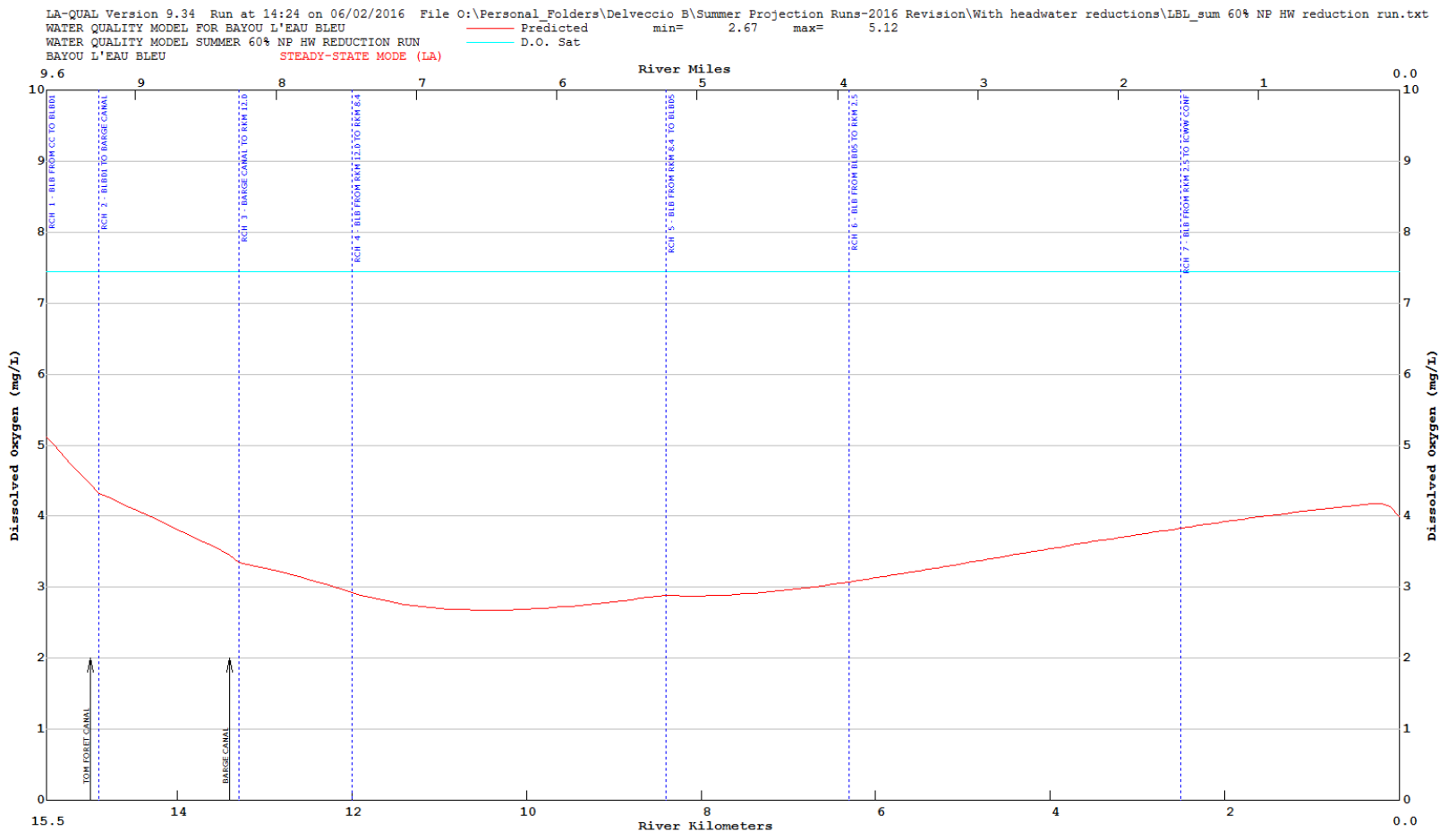
Modeled stream or water body: **BAYOU L'EAU BLEU (SUBSEGMENT 120303)**

Shaded cells are input values for calculations.

REACH NUMBER & DESCRIPTION	Calibration Model Reach Length (km)	Calibration Model Average Reach Width (meters)	Calibration Model UCBOD1 Nonpoint loading (kg/day)	Calibration Model UCBOD2 Nonpoint loading (kg/day)	Calibration Model Total UCBOD Nonpoint loading (kg/day)	Calibration Model UNBOD Nonpoint loading (kg/day)	Calibration Model UCBOD1 Nonpoint loading (gm O_2/m^2/day)	Calibration Model UCBOD2 Nonpoint loading (gm O_2/m^2/day)	Calibration Model Total UCBOD Nonpoint loading (gm O_2/m^2/day)	Calibration Model Total UNBOD Nonpoint loading (gm O_2/m^2/day)	Calibration Model SOD (gm O_2/m^2/day)	Calibration Model TOTAL Benthic Load (gm O_2/m^2/day)
	A	**B**	**C1**	**C2**	**C3**	**D3**	**E1 = C1 / (A x B)**	**E2 = C2 / (A x B)**	**E3 = C3 / (A x B)**	**F3 = D3 / (A x B)**	**G**	**H = E3 + F3 + G**
Bayou L'Eau Bleu												
CC - BLB01	0.60	55.50	0.00	150.00	150.00	50.00	0.000	4.505	4.505	1.502	2.50	**8.51**
BLB01 - BARGE CANAL	1.60	55.50	1300.00	250.00	1550.00	300.00	14.640	2.815	17.455	3.378	1.50	**22.33**
BARGE CANAL - RKM 12.0	1.30	39.60	1100.00	250.00	1350.00	350.00	21.368	4.856	26.224	6.799	1.00	**34.02**
RKM 12.0 - RKM 8.4	3.60	39.60	700.00	80.00	780.00	10.00	4.910	0.561	5.471	0.070	1.00	**6.54**
RKM 8.4 - BLB05	2.10	52.70	100.00	100.00	200.00	30.00	0.904	0.904	1.807	0.271	2.00	**4.08**
BLB05 - RKM 2.5	3.80	52.70	300.00	150.00	450.00	20.00	1.498	0.749	2.247	0.100	2.00	**4.35**
RKM 2.5 - ICWW	2.50	40.54	300.00	150.00	450.00	75.00	2.960	1.480	4.440	0.740	1.50	**6.68**

Appendix D – Projection Model Input and Output Data Sets

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


LA-QUAL Version 9.34 Run at 14:24 on 06/02/2016 File O:\Personal_Folders\Delveccio B\Summer Projection Runs-2016 Revision\With headwater reductions\LBL_sum 60% NP HW reduction run.txt
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
Predicted min= 2.67 max= 5.12
D.O. Sat
River Miles
River Kilometers
Dissolved Oxygen (mg/L)
TOM FOBET CANAL
BARGE CANAL

BAYOU L'EAU BLEU 120303 SUMMER PROJECTION INPUT DATA SET

```
CNTROL01     WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
CNTROL02     WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN
CNTROL12 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CONDUCTIVITY               IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CHLORIDES                  IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06 YES BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT08  NO PHOSPHORUS
MODOPT09  NO CHLOROPHYLL A
MODOPT10  NO MACROPHYTES
MODOPT11  NO COLIFORM
MODOPT12  NO NONCONSERVATIVE MATERIAL
ENDATA02
PROGRAM  DISPERSION EQUATION                =     3.0
PROGRAM  TIDE HEIGHT                        =     0.063
PROGRAM  PERIOD OF TIDAL RISE               =     13.0
PROGRAM  K2 MAXIMUM                         =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD       =     2.
PROGRAM  SETTLING RATE UNITS                =     2.
PROGRAM  WIND VELOCITY                      =     0.68
PROGRAM  ALGAE OXYGEN PROD                  =     0.00
PROGRAM  KL MINIMUM                         =     0.70
PROGRAM  OCEAN EXCHANGE RATIO               =     1.0
PROGRAM  EFF BOD1                          =      0.0
PROGRAM  EFF BOD2                           =     0.0
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ********************************----------**********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID  1    LB BLB FROM CC TO BLB01                15.50      14.90    0.100
REACH ID  2    LB BLB01 TO BARGE CANAL                14.90      13.30    0.100
REACH ID  3    LB BARGE CANAL TO RKM 12.0             13.30      12.00    0.100
REACH ID  4    LB BLB FROM RKM 12.0 TO RKM 8.4        12.00       8.40    0.100
REACH ID  5    LB BLB FROM RKM 8.4  TO BLB05           8.40       6.30    0.100
REACH ID  6    LB BLB FROM BLB05 TO RKM 2.5            6.30       2.50    0.100
REACH ID  7    LB BLB FROM RKM 2.5 TO ICWW CONF        2.50       0.00    0.100
ENDATA08
```

```
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!              WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
!Reach 1 - BLB-02
HYDR-1      1   0.0    0.0    55.50  0.0    0.00    1.22          0.030
!REACH 2 - BLB-02
HYDR-1      2   0.0    0.0    55.50  0.0    0.00    1.22          0.030
!REACH 3 - BLB-04
HYDR-1      3   0.0    0.0    39.60  0.0    0.00    1.27          0.030
!REACH 4 - BLB-04
HYDR-1      4   0.0    0.0    39.60  0.0    0.00    1.27          0.030
!REACH 5 - BLB-05
HYDR-1      5   0.0    0.0    52.70  0.0    0.00    1.05          0.030
!REACH 6 - BLB-05
HYDR-1      6   0.0    0.0    52.70  0.0    0.00    1.05          0.030
!REACH 7 - BLB-07
HYDR-1      7   0.0    0.0    40.54  0.0    0.00    1.49          0.030
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
HYDR-2      1  1.00   23.000   0.833    0.0       1.0
HYDR-2      2  1.00   23.000   0.833    0.0       1.0
HYDR-2      3  1.00   23.000   0.833    0.0       1.0
HYDR-2      4  1.00   23.000   0.833    0.0       1.0
HYDR-2      5  1.00   23.000   0.833    0.0       1.0
HYDR-2      6  1.00   23.000   0.833    0.0       1.0
HYDR-2      7  1.00   23.000   0.833    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO                            CHL A   MACROPHYTES
!Normally when the chlorophyll a values are high and there is a DO swing in the continuous
!monitors of more than 2 mg/l, modeling to (DO min + 1) is the norm.  For this survey, only
!2 continuous monitors were working for Bayou L'Eau Bleu mainstem.  The (DO min + 1) values
!for these monitors were very close to the insitu readings taken at the sample times.  Therefore,
!to be consistent with the sites that did not have continuous monitors, the insitu readings
!taken at the sample times will be used for all sites.
!REACH 1 INSITU AVG (CC-01 + BLB-01) FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-01
```

```
INITIAL     1      30.8    0.09   2.30                           10.0   0.00
!REACH 2 INSITU BLB-01 FOR ALL PARAMETERS
INITIAL     2      30.8    0.09   2.30                           10.0   0.00
!REACH 3 INSITU AVG (BLB-01 + BLB-04) FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-01
INITIAL     3      30.8    0.09   2.30                           10.0   0.00
!REACH 4 INSITU BLB-04 FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-01
INITIAL     4      30.8    0.09   2.30                           10.0   0.00
!REACH 5 INSITU BLB-05 FOR ALL PARAMETERS
INITIAL     5      30.8    0.09   2.30                           10.0   0.00
!REACH 6 INSITU AVG (BLB-05 + BLB-07) FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-05
INITIAL     6      30.8    0.12   2.30                           10.0   0.00
!REACH 7 INSITU BLB-07 FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-05
INITIAL     7      30.8    0.14   2.30                           10.0   0.00
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----******----- ******-------*******-------*******-------*******-------***
!Texas equation was determined to be most suitable for this model.
!Settling rates were determined by calibration.
!Decay rate is the average decay rate of BLB-01, BLB-04, BLB-05, BLB-07
!               REA                          BOD 1  BOD 1 BOD1SET       BOD 2    BOD 2 BOD2SET
!          R#   EQ                       SOD  DECAY  SETT   TO SOD       DECAY    SETT   TO SOD
COEF-1      1   11.0                     1.25  0.120   0.40               0.037   0.20
COEF-1      2   11.0                     0.75  0.120   0.20               0.037   0.20
COEF-1      3   11.0                     0.50  0.120   0.20               0.037   0.20
COEF-1      4   11.0                     0.50  0.120   0.20               0.037   0.20
COEF-1      5   11.0                     1.00  0.120   0.20               0.037   0.20
COEF-1      6   11.0                     1.00  0.120   0.20               0.037   0.50
COEF-1      7   11.0                     0.75  0.120   0.20               0.037   0.50
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
!Decay rate is the average decay rate of BLB-01, BLB-04, BLB-05, BLB-07
!Settling rates were determined by calibration.
COEF-2      1    0.118   0.10
COEF-2      2    0.118   0.10
COEF-2      3    0.118   0.10
COEF-2      4    0.118   0.10
```

```
COEF-2      5    0.118   0.10
COEF-2      6    0.118   0.20
COEF-2      7    0.118   0.20

ENDATA13
ENDATA14
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789
!         ***  ---------********---------*********---------*********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789
!         ***  ---------********---------*********---------*********
!          R#      DO    CBOD       NBOD
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789
!         ***  ---------********---------*********
!          R#             CHL A
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789
!         ***  ---------********---------*********---------*********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1        0.0    25.00      0.0     00.0      0.0    75.00
NONPOINT    2     650.00   150.00      0.0     00.0      0.0   125.00
NONPOINT    3     550.00   175.00      0.0     00.0      0.0   125.00
NONPOINT    4     350.00     5.00      0.0     00.0      0.0    40.00
NONPOINT    5      50.00    15.00      0.0     00.0      0.0    50.00
NONPOINT    6     150.00    10.00      0.0     00.0      0.0    75.00
NONPOINT    7     150.00    37.50      0.0     00.0      0.0    75.00
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                       FLOW    TEMP  SALIN   COND    CHLORIDES   HDWTR XCHANGE
! The headwater flow was assumed to be 1/3 of the average tidal flow.  Temperature
! is 90th percentile temperature for WQN 2843. All other measurements are the average CC-01 and CC-02.
! Moved Headwater exchange from Data Type 3 to Data Type 20 (3/1/16)
HDWTR-1     1  BAYOU L'EAU BLEU          1.0723   30.80   0.09   193.0      13.4      1.0
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789
```

```
!        ****  ---------*********---------*********---------*********
!          E#      DO      BOD 1    NBOD                      BOD 2
! DO measurement is the average CC-01 and CC-02 from calibration.

! All measurements are a percent reduction in loading from calibration.
HDWTR-2     1     5.12     7.78     1.79                      1.82
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------*********---------*********
!          E#             CHL A
! Chlorophyll a value is best professional judgement.
HDWTR-3     1              10.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------*********---------*********---------*********
!          E#     NAME               FLOW      TEMP   SALINITY   COND  CHLORIDES
! Assumed Lockport average flow for Tom Foret and 1/3 average flow
! for Barge Canal summer projections.
! Temperature is the 90th percentile temperature for WQN 2843.
! All other measurements are from site TFC-01.
WSTLD-1     6  TOM FORET CANAL       0.02110   30.8     0.13     277.0    18.6
! All other measurements are from CC-02.
WSTLD-1    22  BARGE CANAL           0.08070   30.8     0.08     184.0    13.5
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------*********-----*********---------*****---------*********
!          E#       DO    BOD 1         NBOD                            BOD 2
! 60% reduction for BOD1, BOD2, and NBOD.
! DO is standard for this subsegment.
WSTLD-2     6      2.30   3.72          2.32                            1.84
WSTLD-2    22      2.30   8.45          2.07                            1.83
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------*********---------*********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
! No measurement taken.
WSTLD-3     6
! All measurements are best professional judgement.
WSTLD-3    22             10.0
ENDATA26
! Temperature is 90th percentile temperature for WQN 2843.
! DO is from ICWW-01.
```

```
! All measurements are from ICWW-01 except Chlorophyll a.
! No measurement taken on ICWW so best professional judgement used for Chlorophyll a.
LOWER BC TEMPERATURE                        =  30.80

LOWER BC SALINITY                           =   0.13
LOWER BC CONSERVATIVE MATERIAL I            = 271.00
LOWER BC CONSERVATIVE MATERIAL II           =  32.50
LOWER BC DISSOLVED OXYGEN                   =   3.71
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =   4.41
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =   0.00
LOWER BC CHLOROPHYLL A                      =   10.0
LOWER BC NBOD                               =   2.54
ENDATA27
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  5  6  7
ENDATA30
ENDATA31
```

BAYOU L'EAU BLEU 120303 SUMMER PROJECTION OUTPUT DATA SET

```
LA-QUAL Version 9.34
Louisiana Department of Environmental Quality

Input file is O:\Personal_Folders\Delveccio B\Summer Projection Runs-2016 Revision\With headwater reductions\LBL_sum 60% NP HW reduction run.txt
Running in steady-state mode using LA defaults
Output produced at 14:24 on 06/02/2016

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

CARD TYPE       CONTROL TITLES

TITLE01         WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
TITLE02         WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN
CNTROL12  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

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

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

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         DISPERSION EQUATION               =         3.00000 (values entered as a function of D,Q,Vmean)
PROGRAM         TIDE HEIGHT                       =         0.06300 meters
PROGRAM         PERIOD OF TIDAL RISE              =        13.00000 hours
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
PROGRAM         WIND VELOCITY                     =         0.68000 meters/sec
PROGRAM         ALGAE OXYGEN PROD                 =         0.00000 mg O/ug chl a/day
PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         OCEAN EXCHANGE RATIO              =         1.00000
PROGRAM         EFF BOD1                                             =     0.0                   0.00000 mg/L BOD1 per ug/L chl a
PROGRAM         EFF BOD2                          =         0.00000 mg/L BOD2 per ug/L chl a
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
```

```
$$$ DATA TYPE 6 (PHYTOPLANKTON CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

$$$ DATA TYPE 7 (PERIPHYTON CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                                        BEGIN          END     ELEM    REACH     BEGIN          END     ELEM    REACH     ELEMS   BEGIN    END
CARD TYPE  REACH  ID  NAME                              REACH        REACH   LENGTH   LENGTH     REACH        REACH   LENGTH   LENGTH   PER RCH   ELEM   ELEM
                                                           km           km       km       km        mi           mi       mi       mi               NUM    NUM

REACH ID      1   LB  BLB FROM CC TO BLB01              15.50  to    14.90   0.1000     0.60      9.63  to     9.26   0.0622     0.37         6      1      6
REACH ID      2   LB  BLB01 TO BARGE CANAL              14.90  to    13.30   0.1000     1.60      9.26  to     8.27   0.0622     0.99        16      7     22
REACH ID      3   LB  BARGE CANAL TO RKM 12.0           13.30  to    12.00   0.1000     1.30      8.27  to     7.46   0.0622     0.81        13     23     35
REACH ID      4   LB  BLB FROM RKM 12.0 TO RKM 8.4      12.00  to     8.40   0.1000     3.60      7.46  to     5.22   0.0622     2.24        36     36     71
REACH ID      5   LB  BLB FROM RKM 8.4  TO BLB05        8.40  to     6.30   0.1000     2.10      5.22  to     3.92   0.0622     1.31        21     72     92
REACH ID      6   LB  BLB FROM BLB05 TO RKM 2.5         6.30  to     2.50   0.1000     3.80      3.92  to     1.55   0.0622     2.36        38     93    130
REACH ID      7   LB  BLB FROM RKM 2.5 TO ICWW CONF     2.50  to     0.00   0.1000     2.50      1.55  to     0.00   0.0622     1.55        25    131    155
ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID       WIDTH       WIDTH       WIDTH       DEPTH       DEPTH       DEPTH      SLOPE     MANNINGS      EVAP
                            "a"         "b"         "c"         "d"         "e"         "f"                    "n"
                        coeff.(m)   exp.of Q   const.(m)    coeff.(m)   exp.of Q   const.(m)                            cm/d

HYDR-1        1   LB       0.000       0.000      55.500       0.000       0.000       1.220    0.00000      0.030    0.00000
HYDR-1        2   LB       0.000       0.000      55.500       0.000       0.000       1.220    0.00000      0.030    0.00000
HYDR-1        3   LB       0.000       0.000      39.600       0.000       0.000       1.270    0.00000      0.030    0.00000
HYDR-1        4   LB       0.000       0.000      39.600       0.000       0.000       1.270    0.00000      0.030    0.00000
HYDR-1        5   LB       0.000       0.000      52.700       0.000       0.000       1.050    0.00000      0.030    0.00000
HYDR-1        6   LB       0.000       0.000      52.700       0.000       0.000       1.050    0.00000      0.030    0.00000
HYDR-1        7   LB       0.000       0.000      40.540       0.000       0.000       1.490    0.00000      0.030    0.00000
ENDATA09

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

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                        RANGE        "a"            "b"            "c"            "d"
                     frac(0-1)  coeff.(m²/s)     exp.of D       exp.of Q      exp.of Vmean

HYDR-2        1   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        2   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        3   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        4   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        5   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        6   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        7   LB      1.00       23.000          0.833          0.000          1.000
ENDATA10

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

CARD TYPE      REACH  ID     TEMP    SALIN       DO    NH3-N    NO3-N    PO4-P    CHL A    PERIP     BOD1     BOD2    ORG-N    ORG-P     COLI      NCM     CM-1     CM-2
                            deg C      ppt     mg/L     mg/L     mg/L     mg/L      µg/L     g/m²     mg/L     mg/L     mg/L     mg/L  #/100mL                MG/L     MG/L

INITIAL          1   LB    30.80     0.09     2.30     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL          2   LB    30.80     0.09     2.30     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL          3   LB    30.80     0.09     2.30     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL          4   LB    30.80     0.09     2.30     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL          5   LB    30.80     0.09     2.30     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

```
INITIAL          6   LB    30.80     0.12     2.30     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL          7   LB    30.80     0.14     2.30     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                                      AEROB              SETTLD     ANAER     AEROB                          ANAER      BOD2
CARD     RCH  RCH  K2                    K2        K2        K2    BKGRND       BOD       BOD       SOD       BOD      BOD2      BOD2                BOD2   HYDR TO
TYPE     NUM   ID  OPT                   "a"       "b"       "c"       SOD     DECAY      SETT     AVAIL     DECAY     DECAY      SETT               DECAY      BOD1
                                                                    g/m²/d   per day   per day      frac   per day   per day   per day             per day   per day

COEF-1     1   LB  11 TEXAS            0.000     0.000     0.000     1.250     0.120     0.400     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     2   LB  11 TEXAS            0.000     0.000     0.000     0.750     0.120     0.200     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     3   LB  11 TEXAS            0.000     0.000     0.000     0.500     0.120     0.200     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     4   LB  11 TEXAS            0.000     0.000     0.000     0.500     0.120     0.200     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     5   LB  11 TEXAS            0.000     0.000     0.000     1.000     0.120     0.200     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     6   LB  11 TEXAS            0.000     0.000     0.000     1.000     0.120     0.200     0.000     0.000     0.037     0.500               0.000     0.000
COEF-1     7   LB  11 TEXAS            0.000     0.000     0.000     0.750     0.120     0.200     0.000     0.000     0.037     0.500               0.000     0.000
ENDATA12

$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$
                                                SETTLD              BKGRND    BKGRND                                   SETTLD
CARD TYPE      REACH  ID        NBOD      NBOD      ORGN       NH3       NH3       PO4     DENIT      ORGP      ORGP      ORGP
                                DECA      SETT     AVAIL      DECA     SRCE      SRCE      RATE      DECA      SETT     AVAIL
                             per day   per day      frac   per day    g/m²/d    g/m²/d   per day   per day   per day      frac

COEF-2           1   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           2   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           3   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           4   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           5   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           6   LB       0.118     0.200     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           7   LB       0.118     0.200     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA13

$$$ DATA TYPE 14 (ALGAE PHYTOPLANKTON AND PERIPHYTON COEFFICIENTS) $$$
                                                                     MAX                          MAX
CARD TYPE      REACH  ID      SECCHI    CHL A:     PHYTO     PHYTO     PHYTO     PHYTO     PERIP     PERIP     PERIP      BANK
                              DEPTH     ALGAE      SETT     DEATH      GROW      RESP     DEATH      GROW      RESP   SHADING
                                  m      frac   per day   per day   per day   per day   per day   per day   per day      frac

ENDATA14

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

CARD TYPE      REACH  ID    COLIFORM       NCM       NCM
                            DIE-OFF     DECAY      SETT
                            per day   per day   per day

ENDATA15

$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE      REACH  ID      OUTFLOW      OUTFLOW      INFLOW      INFLOW      TEMP     SALIN      CM-1      CM-2  OUT/DIST  OUT/DIST   IN/DIST   IN/DIST
                                  m³/s         cfs        m³/s         cfs     deg C       ppt      MG/L      MG/L    cms/km    cfs/mi    cms/km    cfs/mi

ENDATA16

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

CARD TYPE      REACH  ID          DO      BOD1      NBOD                          BOD2
                                mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, PHYTOPLANKTON, COLIFORM, AND NONCONSERVATIVES) $$$
                                        PHYTO
 CARD TYPE      REACH  ID        PO4     CHL A      COLI       NCM      ORGP
```

```
                              mg/L      µg/L   #/100mL                mg/L

ENDATA18


$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$

CARD TYPE      REACH  ID        BOD1     NBOD       COLI       NCM        DO      BOD2     ORG-P       NH3       NO3       PO4
                                kg/d      kg/d     #/day                kg/d      kg/d      kg/d      kg/d      kg/d      kg/d

NONPOINT           1   LB        0.00     25.00      0.00      0.00      0.00     75.00      0.00      0.00      0.00      0.00
NONPOINT           2   LB      650.00    150.00      0.00      0.00      0.00    125.00      0.00      0.00      0.00      0.00
NONPOINT           3   LB      550.00    175.00      0.00      0.00      0.00    125.00      0.00      0.00      0.00      0.00
NONPOINT           4   LB      350.00      5.00      0.00      0.00      0.00     40.00      0.00      0.00      0.00      0.00
NONPOINT           5   LB       50.00     15.00      0.00      0.00      0.00     50.00      0.00      0.00      0.00      0.00
NONPOINT           6   LB      150.00     10.00      0.00      0.00      0.00     75.00      0.00      0.00      0.00      0.00
NONPOINT           7   LB      150.00     37.50      0.00      0.00      0.00     75.00      0.00      0.00      0.00      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
                                                                                                                   HDW DISP
CARD TYPE      ELEMENT   NAME                   UNIT     FLOW       FLOW    TEMP    SALIN      CM-1      CM-2     EXCHG
                                                         m³/s        cfs   deg C      ppt      MG/L      MG/L      frac

HDWTR-1            1     BAYOU L'EAU BLEU        0   1.07230   37.86771   30.80     0.09   193.000    13.400     1.000
ENDATA20

$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE      ELEMENT   NAME                          DO      BOD1     NBOD                          BOD2
                                                     mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2            1     BAYOU L'EAU BLEU            5.12      7.78      1.79      0.00      0.00      1.82
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, PHYTOPLANKTON, COLIFORM, AND NONCONSERVATIVES) $$$
                                                                PHYTO
CARD TYPE      ELEMENT   NAME                       PO4-P     CHL A      COLI       NCM     ORG-P
                                                     mg/L      µg/L   #/100mL                mg/L

HDWTR-3            1     BAYOU L'EAU BLEU             0.00     10.00      0.00      0.00      0.00
ENDATA22

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

CARD TYPE    JUNCTION   UPSTRM     RIVER     NAME
              ELEMENT  ELEMENT     KILOM

ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE  ELEMENT    RKILO  NAME                      FLOW       FLOW     FLOW    TEMP    SALIN      CM-1      CM-2
                                                         m³/s        cfs      MGD   deg C      ppt      MG/L      MG/L

WSTLD-1        6      15.00  TOM FORET CANAL        0.02110    0.74514    0.482   30.80     0.13   277.000    18.600
WSTLD-1       22      13.40  BARGE CANAL            0.08070    2.84988    1.842   30.80     0.08   184.000    13.500
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE      ELEMENT   NAME                          DO      BOD1     % BOD     NBOD                  %                  BOD2
                                                     mg/L      mg/L      RMVL      mg/L      mg/L    NITRIF      mg/L      mg/L

WSTLD-2            6     TOM FORET CANAL             2.30      3.72      0.00      2.32      0.00      0.00      0.00      1.84
WSTLD-2           22     BARGE CANAL                 2.30      8.45      0.00      2.07      0.00      0.00      0.00      1.83
ENDATA25
```

```
$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, PHYTOPLANTON, COLIFORM, AND NONCONSERVATIVES) $$$
                                                          PHYTO
CARD TYPE     ELEMENT   NAME                        PO4-P     CHL A      COLI       NCM     ORG-P
                                                     mg/L      µg/L   #/100mL                mg/L

WSTLD-3           6     TOM FORET CANAL              0.00      0.00      0.00      0.00      0.00
WSTLD-3          22     BARGE CANAL                  0.00     10.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                        =     30.800     deg C
LOWER BC     SALINITY                           =      0.130     ppt
LOWER BC     CONSERVATIVE MATERIAL I            =    271.000     MG/L
LOWER BC     CONSERVATIVE MATERIAL II           =     32.500     MG/L
LOWER BC     DISSOLVED OXYGEN                   =      3.710     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND     =      4.410     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND     =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                      =     10.000     µg/L
LOWER BC     NBOD                               =      2.540     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$

CARD TYPE     ELEMENT   DAM NAME              DAM REAERATION EQUATION       "a"       "b"       "H"

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$

CARD TYPE       PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

ENDATA29

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

NUMBER OF PLOTS =  1
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  5  6  7
ENDATA30

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

ENDATA31


CONCENTRATION ADJUSTMENTS RESULTING FROM USING EFFECTIVE CONCENTRATIONS

  ELEM  HEADWATER NAME           CHL A  EBOD1   BOD1  EBOD2   BOD2  EORGN   ORGN  EORGP   ORGP

     1  BAYOU L'EAU BLEU          10.0   7.78   7.78   1.82   1.82   1.79   1.79   0.00   0.00
   LBC                             10.0   4.41   4.41   0.00   0.00   2.54   2.54   0.00   0.00


     .....NO FATAL ERRORS DETECTED IN INPUT DATA
     .....MODEL CONTAINS   1 HEADWATERS,   7 REACHES,    0 DAMS,  155 ELEMENTS, AND   2 WASTELOADS
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   47 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
```

INTERMEDIATE REPORT
Dissolved Oxygen
mg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	4.99	4.83	4.69	4.56	4.44	4.31				
LB	2	7	4.26	4.20	4.15	4.09	4.04	3.98	3.92	3.86	3.81	3.75
LB	2	17	3.69	3.63	3.57	3.51	3.44	3.34				
LB	3	23	3.32	3.29	3.26	3.24	3.21	3.17	3.14	3.11	3.07	3.03
LB	3	33	2.99	2.96	2.92							
LB	4	36	2.88	2.85	2.82	2.80	2.77	2.75	2.74	2.72	2.71	2.70
LB	4	46	2.69	2.68	2.68	2.67	2.67	2.67	2.67	2.68	2.68	2.69
LB	4	56	2.69	2.70	2.71	2.72	2.73	2.74	2.75	2.76	2.78	2.79
LB	4	66	2.81	2.82	2.84	2.85	2.87	2.88				
LB	5	72	2.88	2.87	2.87	2.87	2.88	2.88	2.89	2.89	2.90	2.91
LB	5	82	2.92	2.93	2.94	2.96	2.97	2.99	3.00	3.02	3.03	3.05
LB	5	92	3.07									
LB	6	93	3.09	3.11	3.13	3.14	3.16	3.18	3.20	3.22	3.25	3.27
LB	6	103	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48
LB	6	113	3.50	3.52	3.54	3.56	3.58	3.60	3.62	3.64	3.66	3.68
LB	6	123	3.70	3.71	3.73	3.75	3.77	3.79	3.80	3.82		
LB	7	131	3.84	3.86	3.88	3.90	3.92	3.93	3.95	3.97	3.98	4.00
LB	7	141	4.02	4.03	4.05	4.06	4.08	4.09	4.10	4.12	4.13	4.14
LB	7	151	4.15	4.16	4.16	4.13	3.99					

INTERMEDIATE REPORT
Effective BOD1
mg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	7.46	7.10	6.75	6.42	6.12	5.90				
LB	2	7	6.13	6.35	6.56	6.77	6.97	7.16	7.35	7.53	7.71	7.88
LB	2	17	8.05	8.21	8.37	8.52	8.66	8.80				
LB	3	23	9.02	9.22	9.43	9.62	9.82	10.01	10.19	10.38	10.55	10.73
LB	3	33	10.89	11.05	11.14							
LB	4	36	10.99	10.84	10.70	10.56	10.42	10.28	10.15	10.02	9.89	9.77
LB	4	46	9.65	9.53	9.41	9.30	9.19	9.08	8.97	8.87	8.77	8.67
LB	4	56	8.57	8.48	8.38	8.29	8.20	8.12	8.03	7.95	7.87	7.79
LB	4	66	7.71	7.63	7.56	7.49	7.41	7.33				
LB	5	72	7.18	7.03	6.88	6.74	6.60	6.46	6.33	6.20	6.07	5.95
LB	5	82	5.83	5.71	5.59	5.48	5.37	5.27	5.16	5.06	4.96	4.86
LB	5	92	4.77									
LB	6	93	4.70	4.62	4.55	4.47	4.40	4.34	4.27	4.20	4.14	4.08
LB	6	103	4.02	3.96	3.90	3.85	3.79	3.74	3.68	3.63	3.58	3.53
LB	6	113	3.49	3.44	3.40	3.35	3.31	3.27	3.23	3.19	3.15	3.11
LB	6	123	3.07	3.03	3.00	2.96	2.93	2.90	2.87	2.84		
LB	7	131	2.82	2.80	2.79	2.77	2.76	2.74	2.73	2.71	2.70	2.68
LB	7	141	2.67	2.66	2.65	2.63	2.62	2.61	2.60	2.59	2.58	2.57
LB	7	151	2.56	2.56	2.59	2.72	3.28					

INTERMEDIATE REPORT
Biochemical Oxygen Demand

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU

mg/L WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	7.46	7.10	6.75	6.42	6.12	5.90				
LB	2	7	6.13	6.35	6.56	6.77	6.97	7.16	7.35	7.53	7.71	7.88
LB	2	17	8.05	8.21	8.37	8.52	8.66	8.80				
LB	3	23	9.02	9.22	9.43	9.62	9.82	10.01	10.19	10.38	10.55	10.73
LB	3	33	10.89	11.05	11.14							
LB	4	36	10.99	10.84	10.70	10.56	10.42	10.28	10.15	10.02	9.89	9.77
LB	4	46	9.65	9.53	9.41	9.30	9.19	9.08	8.97	8.87	8.77	8.67
LB	4	56	8.57	8.48	8.38	8.29	8.20	8.12	8.03	7.95	7.87	7.79
LB	4	66	7.71	7.63	7.56	7.49	7.41	7.33				
LB	5	72	7.18	7.03	6.88	6.74	6.60	6.46	6.33	6.20	6.07	5.95
LB	5	82	5.83	5.71	5.59	5.48	5.37	5.27	5.16	5.06	4.96	4.86
LB	5	92	4.77									
LB	6	93	4.70	4.62	4.55	4.47	4.40	4.34	4.27	4.20	4.14	4.08
LB	6	103	4.02	3.96	3.90	3.85	3.79	3.74	3.68	3.63	3.58	3.53
LB	6	113	3.49	3.44	3.40	3.35	3.31	3.27	3.23	3.19	3.15	3.11
LB	6	123	3.07	3.03	3.00	2.96	2.93	2.90	2.87	2.84		
LB	7	131	2.82	2.80	2.79	2.77	2.76	2.74	2.73	2.71	2.70	2.68
LB	7	141	2.67	2.66	2.65	2.63	2.62	2.61	2.60	2.59	2.58	2.57
LB	7	151	2.56	2.56	2.59	2.72	3.28					

INTERMEDIATE REPORT
Biochemical Oxygen Demand #2 WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
mg/L WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	1.89	1.98	2.07	2.15	2.23	2.29				
LB	2	7	2.32	2.35	2.38	2.41	2.43	2.46	2.49	2.51	2.54	2.56
LB	2	17	2.58	2.61	2.63	2.65	2.66	2.64				
LB	3	23	2.70	2.75	2.80	2.85	2.90	2.94	2.99	3.04	3.08	3.13
LB	3	33	3.17	3.21	3.24							
LB	4	36	3.20	3.16	3.12	3.08	3.05	3.01	2.97	2.94	2.90	2.87
LB	4	46	2.84	2.80	2.77	2.74	2.71	2.67	2.64	2.61	2.58	2.55
LB	4	56	2.53	2.50	2.47	2.44	2.41	2.39	2.36	2.34	2.31	2.28
LB	4	66	2.26	2.24	2.21	2.19	2.17	2.14				
LB	5	72	2.13	2.12	2.11	2.09	2.08	2.07	2.05	2.04	2.03	2.02
LB	5	82	2.01	2.00	1.99	1.97	1.96	1.95	1.94	1.93	1.92	1.91
LB	5	92	1.89									
LB	6	93	1.84	1.79	1.75	1.70	1.66	1.61	1.57	1.53	1.50	1.46
LB	6	103	1.42	1.39	1.36	1.33	1.30	1.27	1.24	1.21	1.19	1.16
LB	6	113	1.14	1.11	1.09	1.07	1.05	1.03	1.01	0.99	0.97	0.96
LB	6	123	0.94	0.92	0.91	0.89	0.88	0.86	0.85	0.84		
LB	7	131	0.83	0.83	0.82	0.82	0.81	0.81	0.81	0.80	0.80	0.79
LB	7	141	0.79	0.79	0.78	0.78	0.78	0.77	0.77	0.77	0.77	0.76
LB	7	151	0.76	0.75	0.74	0.68	0.45					

INTERMEDIATE REPORT
Effective BOD2 WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
mg/L WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	1.89	1.98	2.07	2.15	2.23	2.29				
LB	2	7	2.32	2.35	2.38	2.41	2.43	2.46	2.49	2.51	2.54	2.56
LB	2	17	2.58	2.61	2.63	2.65	2.66	2.64				
LB	3	23	2.70	2.75	2.80	2.85	2.90	2.94	2.99	3.04	3.08	3.13
LB	3	33	3.17	3.21	3.24							
LB	4	36	3.20	3.16	3.12	3.08	3.05	3.01	2.97	2.94	2.90	2.87

LB	4	46	2.84	2.80	2.77	2.74	2.71	2.67	2.64	2.61	2.58	2.55
LB	4	56	2.53	2.50	2.47	2.44	2.41	2.39	2.36	2.34	2.31	2.28
LB	4	66	2.26	2.24	2.21	2.19	2.17	2.14				
LB	5	72	2.13	2.12	2.11	2.09	2.08	2.07	2.05	2.04	2.03	2.02
LB	5	82	2.01	2.00	1.99	1.97	1.96	1.95	1.94	1.93	1.92	1.91
LB	5	92	1.89									
LB	6	93	1.84	1.79	1.75	1.70	1.66	1.61	1.57	1.53	1.50	1.46
LB	6	103	1.42	1.39	1.36	1.33	1.30	1.27	1.24	1.21	1.19	1.16
LB	6	113	1.14	1.11	1.09	1.07	1.05	1.03	1.01	0.99	0.97	0.96
LB	6	123	0.94	0.92	0.91	0.89	0.88	0.86	0.85	0.84		
LB	7	131	0.83	0.83	0.82	0.82	0.81	0.81	0.81	0.80	0.80	0.79
LB	7	141	0.79	0.79	0.78	0.78	0.78	0.77	0.77	0.77	0.77	0.76
LB	7	151	0.76	0.75	0.74	0.68	0.45					

INTERMEDIATE REPORT
Nitrogenous Oxygen Demand
mg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	1.79	1.79	1.79	1.79	1.79	1.81				
LB	2	7	1.86	1.91	1.96	2.01	2.06	2.11	2.15	2.20	2.24	2.29
LB	2	17	2.33	2.37	2.41	2.45	2.49	2.51				
LB	3	23	2.60	2.69	2.78	2.86	2.95	3.03	3.11	3.19	3.27	3.35
LB	3	33	3.42	3.49	3.54							
LB	4	36	3.49	3.43	3.38	3.33	3.28	3.23	3.18	3.13	3.08	3.04
LB	4	46	2.99	2.94	2.90	2.86	2.81	2.77	2.73	2.69	2.65	2.61
LB	4	56	2.57	2.53	2.49	2.45	2.42	2.38	2.35	2.31	2.28	2.24
LB	4	66	2.21	2.17	2.14	2.11	2.08	2.05				
LB	5	72	2.02	1.99	1.96	1.94	1.91	1.88	1.86	1.83	1.81	1.78
LB	5	82	1.76	1.73	1.71	1.69	1.67	1.64	1.62	1.60	1.58	1.56
LB	5	92	1.53									
LB	6	93	1.50	1.47	1.43	1.40	1.37	1.34	1.31	1.28	1.25	1.22
LB	6	103	1.19	1.17	1.14	1.12	1.09	1.07	1.04	1.02	1.00	0.98
LB	6	113	0.95	0.93	0.91	0.89	0.87	0.85	0.84	0.82	0.80	0.78
LB	6	123	0.77	0.75	0.73	0.72	0.70	0.69	0.67	0.66		
LB	7	131	0.66	0.65	0.65	0.65	0.64	0.64	0.64	0.63	0.63	0.63
LB	7	141	0.63	0.62	0.62	0.62	0.61	0.61	0.61	0.61	0.61	0.60
LB	7	151	0.60	0.61	0.65	0.79	1.38					

INTERMEDIATE REPORT
Chlorophyll a
µg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	10.00	10.00	10.00	10.00	10.00	10.00				
LB	2	7	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	2	17	10.00	10.00	10.00	10.00	10.00	10.00				
LB	3	23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	3	33	10.00	10.00	10.00							
LB	4	36	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	4	46	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	4	56	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	4	66	10.00	10.00	10.00	10.00	10.00	10.00				
LB	5	72	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	5	82	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	5	92	10.00									
LB	6	93	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	6	103	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	6	113	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	6	123	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00		

LB	7	131	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	7	141	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	7	151	10.00	10.00	10.00	10.00	10.00					

INTERMEDIATE REPORT
Temperature
deg C

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	30.80	30.80	30.80	30.80	30.80	30.80				
LB	2	7	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80
LB	2	17	30.80	30.80	30.80	30.80	30.80	30.80				
LB	3	23	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80
LB	3	33	30.80	30.80	30.80							
LB	4	36	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80
LB	4	46	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80
LB	4	56	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80
LB	4	66	30.80	30.80	30.80	30.80	30.80	30.80				
LB	5	72	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80
LB	5	82	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80
LB	5	92	30.80									
LB	6	93	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80
LB	6	103	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80
LB	6	113	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80
LB	6	123	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80		
LB	7	131	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80
LB	7	141	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80	30.80
LB	7	151	30.80	30.80	30.80	30.80	30.80					

INTERMEDIATE REPORT
Salinity
ppt

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.09	0.09	0.09	0.09	0.09	0.09				
LB	2	7	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	2	17	0.09	0.09	0.09	0.09	0.09	0.09				
LB	3	23	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	3	33	0.09	0.09	0.09							
LB	4	36	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	4	46	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	4	56	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	4	66	0.09	0.09	0.09	0.09	0.09	0.09				
LB	5	72	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10
LB	5	82	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12
LB	5	92	0.12									
LB	6	93	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13
LB	6	103	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
LB	6	113	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14
LB	6	123	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14		
LB	7	131	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
LB	7	141	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
LB	7	151	0.13	0.13	0.13	0.13	0.13					

INTERMEDIATE REPORT
CONDUCTIVITY
MG/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

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

LB	1	1	193.00	193.00	193.02	193.07	193.35	194.62				
LB	2	7	194.62	194.62	194.62	194.62	194.62	194.62	194.62	194.62	194.62	194.62
LB	2	17	194.62	194.62	194.61	194.59	194.46	193.89				
LB	3	23	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	3	33	193.89	193.89	193.89							
LB	4	36	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	4	46	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	4	56	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	4	66	193.89	193.89	193.89	193.89	193.89	193.89				
LB	5	72	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	5	82	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	5	92	193.89									
LB	6	93	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	6	103	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	6	113	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	6	123	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89		
LB	7	131	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	7	141	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.90	193.93
LB	7	151	194.03	194.44	196.03	202.16	225.72					

INTERMEDIATE REPORT
CHLORIDES
MG/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	13.40	13.40	13.40	13.40	13.42	13.50				
LB	2	7	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	2	17	13.50	13.50	13.50	13.50	13.50	13.50				
LB	3	23	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	3	33	13.50	13.50	13.50							
LB	4	36	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	4	46	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	4	56	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	4	66	13.50	13.50	13.50	13.50	13.50	13.50				
LB	5	72	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	5	82	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	5	92	13.50									
LB	6	93	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	6	103	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	6	113	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	6	123	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50		
LB	7	131	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	7	141	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.51
LB	7	151	13.54	13.64	14.03	15.54	21.34					

INTERMEDIATE REPORT
River Distance
km

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	15.	15.	15.	15.	15.	15.				
LB	2	7	15.	15.	15.	14.	14.	14.	14.	14.	14.	14.
LB	2	17	14.	14.	14.	13.	13.	13.				
LB	3	23	13.	13.	13.	13.	13.	13.	13.	12.	12.	12.
LB	3	33	12.	12.	12.							
LB	4	36	12.	12.	12.	12.	11.	11.	11.	11.	11.	11.
LB	4	46	11.	11.	11.	11.	10.	10.	10.	10.	10.	10.
LB	4	56	10.	10.	10.	10.	9.	9.	9.	9.	9.	9.
LB	4	66	9.	9.	9.	9.	8.	8.				
LB	5	72	8.	8.	8.	8.	8.	8.	8.	8.	7.	7.

LB	5	82	7.	7.	7.	7.	7.	7.	7.	7.	6.	6.
LB	5	92	6.									
LB	6	93	6.	6.	6.	6.	6.	6.	6.	6.	5.	5.
LB	6	103	5.	5.	5.	5.	5.	5.	5.	5.	4.	4.
LB	6	113	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.
LB	6	123	3.	3.	3.	3.	3.	3.	3.	3.		
LB	7	131	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
LB	7	141	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	7	151	0.	0.	0.	0.	0.					

INTERMEDIATE REPORT
Flow
m^3/s

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	1.1	1.1	1.1	1.1	1.1	1.1				
LB	2	7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
LB	2	17	1.1	1.1	1.1	1.1	1.1	1.2				
LB	3	23	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	3	33	1.2	1.2	1.2							
LB	4	36	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	4	46	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	4	56	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	4	66	1.2	1.2	1.2	1.2	1.2	1.2				
LB	5	72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	5	82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	5	92	1.2									
LB	6	93	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	6	103	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	6	113	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	6	123	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2		
LB	7	131	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	7	141	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	7	151	1.2	1.2	1.2	1.2	1.2					

INTERMEDIATE REPORT
Dispersion
m^2/s

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.4	0.4	0.4	0.4	0.4	0.4				
LB	2	7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
LB	2	17	0.4	0.4	0.4	0.4	0.4	0.5				
LB	3	23	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
LB	3	33	0.7	0.7	0.7							
LB	4	36	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
LB	4	46	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
LB	4	56	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
LB	4	66	0.7	0.7	0.7	0.7	0.7	0.7				
LB	5	72	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
LB	5	82	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
LB	5	92	0.5									
LB	6	93	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

LB	6	103	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
LB	6	113	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
LB	6	123	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
LB	7	131	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7
LB	7	141	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
LB	7	151	0.7	0.7	0.7	0.7	0.7					

INTERMEDIATE REPORT
Depth
m

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	1.2	1.2	1.2	1.2	1.2	1.2				
LB	2	7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	2	17	1.2	1.2	1.2	1.2	1.2	1.2				
LB	3	23	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	3	33	1.3	1.3	1.3							
LB	4	36	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	4	46	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	4	56	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	4	66	1.3	1.3	1.3	1.3	1.3	1.3				
LB	5	72	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	5	82	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	5	92	1.0									
LB	6	93	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	6	103	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	6	113	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	6	123	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LB	7	131	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
LB	7	141	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
LB	7	151	1.5	1.5	1.5	1.5	1.5					

INTERMEDIATE REPORT
Width
m

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	55.5	55.5	55.5	55.5	55.5	55.5				
LB	2	7	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
LB	2	17	55.5	55.5	55.5	55.5	55.5	55.5				
LB	3	23	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
LB	3	33	39.6	39.6	39.6							
LB	4	36	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
LB	4	46	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
LB	4	56	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
LB	4	66	39.6	39.6	39.6	39.6	39.6	39.6				
LB	5	72	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	5	82	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	5	92	52.7									
LB	6	93	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	6	103	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	6	113	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	6	123	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7		
LB	7	131	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
LB	7	141	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
LB	7	151	40.5	40.5	40.5	40.5	40.5					

INTERMEDIATE REPORT
Advective Velocity

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU

m/s

WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.0	0.0	0.0	0.0	0.0	0.0				
LB	2	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	2	17	0.0	0.0	0.0	0.0	0.0	0.0				
LB	3	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	3	33	0.0	0.0	0.0							
LB	4	36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	4	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	4	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	4	66	0.0	0.0	0.0	0.0	0.0	0.0				
LB	5	72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	5	82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	5	92	0.0									
LB	6	93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	6	103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	6	113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	6	123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
LB	7	131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	7	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	7	151	0.0	0.0	0.0	0.0	0.0					

INTERMEDIATE REPORT
Mean Velocity
m/s

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.0	0.0	0.0	0.0	0.0	0.0				
LB	2	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	2	17	0.0	0.0	0.0	0.0	0.0	0.0				
LB	3	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	3	33	0.0	0.0	0.0							
LB	4	36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	4	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	4	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	4	66	0.0	0.0	0.0	0.0	0.0	0.0				
LB	5	72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	5	82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	5	92	0.0									
LB	6	93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	6	103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	6	113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	6	123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
LB	7	131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	7	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	7	151	0.0	0.0	0.0	0.0	0.0					

INTERMEDIATE REPORT
Cross-Sectional Area
m^2

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	67.7	67.7	67.7	67.7	67.7	67.7				
LB	2	7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
LB	2	17	67.7	67.7	67.7	67.7	67.7	67.7				
LB	3	23	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
LB	3	33	50.3	50.3	50.3							
LB	4	36	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3

LB	4	46	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
LB	4	56	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
LB	4	66	50.3	50.3	50.3	50.3	50.3	50.3				
LB	5	72	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	5	82	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	5	92	55.3									
LB	6	93	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	6	103	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	6	113	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	6	123	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3		
LB	7	131	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
LB	7	141	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
LB	7	151	60.4	60.4	60.4	60.4	60.4					

INTERMEDIATE REPORT
Reaeration Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.700	0.700	0.700	0.700	0.700	0.700				
LB	2	7	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700
LB	2	17	0.700	0.700	0.700	0.700	0.700	0.700				
LB	3	23	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679
LB	3	33	0.679	0.679	0.679							
LB	4	36	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679
LB	4	46	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679
LB	4	56	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679	0.679
LB	4	66	0.679	0.679	0.679	0.679	0.679	0.679				
LB	5	72	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813
LB	5	82	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813
LB	5	92	0.813									
LB	6	93	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813
LB	6	103	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813
LB	6	113	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813
LB	6	123	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813		
LB	7	131	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573
LB	7	141	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.573
LB	7	151	0.573	0.573	0.573	0.574	0.574					

INTERMEDIATE REPORT
BOD1 Decay Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.	0.	0.	0.	0.	0.				
LB	2	7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	2	17	0.	0.	0.	0.	0.	0.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	82	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	92	0.									
LB	6	93	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	103	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	113	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	123	0.	0.	0.	0.	0.	0.	0.	0.		
LB	7	131	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	141	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	151	0.	0.	0.	0.	0.					

INTERMEDIATE REPORT
BOD1 Settling Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	1.	1.	1.	1.	1.	1.				
LB	2	7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	2	17	0.	0.	0.	0.	0.	0.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	82	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	92	0.									
LB	6	93	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	103	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	113	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	123	0.	0.	0.	0.	0.	0.	0.	0.		
LB	7	131	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	141	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	151	0.	0.	0.	0.	0.					

INTERMEDIATE REPORT
BOD2 Decay Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.	0.	0.	0.	0.	0.				
LB	2	7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	2	17	0.	0.	0.	0.	0.	0.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	82	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	92	0.									
LB	6	93	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	103	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	113	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	123	0.	0.	0.	0.	0.	0.	0.	0.		
LB	7	131	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	141	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

LB	7	151	0.	0.	0.	0.	0.

INTERMEDIATE REPORT
BOD2 Settling Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.	0.	0.	0.	0.	0.				
LB	2	7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	2	17	0.	0.	0.	0.	0.	0.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	82	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	92	0.									
LB	6	93	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	6	103	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	6	113	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	6	123	1.	1.	1.	1.	1.	1.	1.	1.		
LB	7	131	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	7	141	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	7	151	1.	1.	1.	1.	1.					

INTERMEDIATE REPORT
Sediment Oxygen Demand
g/m²/d

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	2.	2.	2.	2.	2.	2.				
LB	2	7	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	2	17	1.	1.	1.	1.	1.	1.				
LB	3	23	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	3	33	1.	1.	1.							
LB	4	36	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	4	46	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	4	56	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	4	66	1.	1.	1.	1.	1.	1.				
LB	5	72	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
LB	5	82	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
LB	5	92	2.									
LB	6	93	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
LB	6	103	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
LB	6	113	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
LB	6	123	2.	2.	2.	2.	2.	2.	2.	2.		
LB	7	131	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	7	141	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	7	151	1.	1.	1.	1.	1.					

CAPSULE SUMMARY FOR BAYOU L'EAU BLEU

IOR	REACH	DIST km	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	DO mg/L	BOD1 mg/L	BOD2 mg/L	NBOD mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	ORG-P mg/L	PO4-P mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
		HDWTR	1.072	37.868	30.80	0.1	5.12	7.78	1.82	1.79	0.00	0.00	1.79	0.00	0.00	10.0													
1	LB 1	15.400	1.072	37.868	30.80	0.1	4.99	7.46	1.89	1.79	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.015837	0.015837	7.452	0.700	0.20	0.52	0.06	0.26	0.00	2.47
2	LB 1	15.300	1.072	37.868	30.80	0.1	4.83	7.10	1.98	1.79	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.015837	0.015837	7.452	0.700	0.20	0.52	0.06	0.26	0.00	2.47
3	LB 1	15.200	1.072	37.868	30.80	0.1	4.69	6.75	2.07	1.79	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.015837	0.015837	7.452	0.700	0.20	0.52	0.06	0.26	0.00	2.47
4	LB 1	15.100	1.072	37.868	30.80	0.1	4.56	6.42	2.15	1.79	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.015837	0.015837	7.452	0.700	0.20	0.52	0.06	0.26	0.00	2.47
5	LB 1	15.000	1.072	37.868	30.80	0.1	4.44	6.12	2.23	1.79	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.015837	0.015837	7.452	0.700	0.20	0.52	0.06	0.26	0.00	2.47

WASTELOAD # 006 (TOM FORET CANAL) ENTERS HERE

6	LB	1	14.900	1.093	38.613	30.80	0.1	4.31	5.90	2.29	1.81	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.52	0.06	0.26	0.00	2.47
7	LB	2	14.800	1.093	38.613	30.80	0.1	4.26	6.13	2.32	1.86	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
8	LB	2	14.700	1.093	38.613	30.80	0.1	4.20	6.35	2.35	1.91	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
9	LB	2	14.600	1.093	38.613	30.80	0.1	4.15	6.56	2.38	1.96	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
10	LB	2	14.500	1.093	38.613	30.80	0.1	4.09	6.77	2.41	2.01	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
11	LB	2	14.400	1.093	38.613	30.80	0.1	4.04	6.97	2.43	2.06	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
12	LB	2	14.300	1.093	38.613	30.80	0.1	3.98	7.16	2.46	2.11	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
13	LB	2	14.200	1.093	38.613	30.80	0.1	3.92	7.35	2.49	2.15	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
14	LB	2	14.100	1.093	38.613	30.80	0.1	3.86	7.53	2.51	2.20	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
15	LB	2	14.000	1.093	38.613	30.80	0.1	3.81	7.71	2.54	2.24	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
16	LB	2	13.900	1.093	38.613	30.80	0.1	3.75	7.88	2.56	2.29	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
17	LB	2	13.800	1.093	38.613	30.80	0.1	3.69	8.05	2.58	2.33	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
18	LB	2	13.700	1.093	38.613	30.80	0.1	3.63	8.21	2.61	2.37	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
19	LB	2	13.600	1.093	38.613	30.80	0.1	3.57	8.37	2.63	2.41	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
20	LB	2	13.500	1.093	38.613	30.80	0.1	3.51	8.52	2.65	2.45	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
21	LB	2	13.400	1.093	38.613	30.80	0.1	3.44	8.66	2.66	2.49	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48

WASTELOAD # 022 (BARGE CANAL) ENTERS HERE

22	LB	2	13.300	1.174	41.463	30.80	0.1	3.34	8.80	2.64	2.51	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.22	55.5	0.017340	0.017340	7.452	0.700	0.20	0.26	0.06	0.26	0.00	1.48
23	LB	3	13.200	1.174	41.463	30.80	0.1	3.32	9.02	2.70	2.60	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
24	LB	3	13.100	1.174	41.463	30.80	0.1	3.29	9.22	2.75	2.69	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
25	LB	3	13.000	1.174	41.463	30.80	0.1	3.26	9.43	2.80	2.78	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
26	LB	3	12.900	1.174	41.463	30.80	0.1	3.24	9.62	2.85	2.86	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
27	LB	3	12.800	1.174	41.463	30.80	0.1	3.21	9.82	2.90	2.95	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
28	LB	3	12.700	1.174	41.463	30.80	0.1	3.17	10.01	2.94	3.03	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
29	LB	3	12.600	1.174	41.463	30.80	0.1	3.14	10.19	2.99	3.11	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
30	LB	3	12.500	1.174	41.463	30.80	0.1	3.11	10.38	3.04	3.19	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
31	LB	3	12.400	1.174	41.463	30.80	0.1	3.07	10.55	3.08	3.27	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
32	LB	3	12.300	1.174	41.463	30.80	0.1	3.03	10.73	3.13	3.35	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
33	LB	3	12.200	1.174	41.463	30.80	0.1	2.99	10.89	3.17	3.42	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
34	LB	3	12.100	1.174	41.463	30.80	0.1	2.96	11.05	3.21	3.49	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
35	LB	3	12.000	1.174	41.463	30.80	0.1	2.92	11.14	3.24	3.54	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
36	LB	4	11.900	1.174	41.463	30.80	0.1	2.88	10.99	3.20	3.49	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
37	LB	4	11.800	1.174	41.463	30.80	0.1	2.85	10.84	3.16	3.43	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
38	LB	4	11.700	1.174	41.463	30.80	0.1	2.82	10.70	3.12	3.38	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
39	LB	4	11.600	1.174	41.463	30.80	0.1	2.80	10.56	3.08	3.33	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
40	LB	4	11.500	1.174	41.463	30.80	0.1	2.77	10.42	3.05	3.28	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
41	LB	4	11.400	1.174	41.463	30.80	0.1	2.75	10.28	3.01	3.23	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
42	LB	4	11.300	1.174	41.463	30.80	0.1	2.74	10.15	2.97	3.18	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
43	LB	4	11.200	1.174	41.463	30.80	0.1	2.72	10.02	2.94	3.13	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
44	LB	4	11.100	1.174	41.463	30.80	0.1	2.71	9.89	2.90	3.08	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
45	LB	4	11.000	1.174	41.463	30.80	0.1	2.70	9.77	2.87	3.04	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
46	LB	4	10.900	1.174	41.463	30.80	0.1	2.69	9.65	2.84	2.99	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
47	LB	4	10.800	1.174	41.463	30.80	0.1	2.68	9.53	2.80	2.94	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
48	LB	4	10.700	1.174	41.463	30.80	0.1	2.68	9.41	2.77	2.90	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
49	LB	4	10.600	1.174	41.463	30.80	0.1	2.67	9.30	2.74	2.86	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
50	LB	4	10.500	1.174	41.463	30.80	0.1	2.67	9.19	2.71	2.81	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
51	LB	4	10.400	1.174	41.463	30.80	0.1	2.67	9.08	2.67	2.77	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
52	LB	4	10.300	1.174	41.463	30.80	0.1	2.67	8.97	2.64	2.73	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
53	LB	4	10.200	1.174	41.463	30.80	0.1	2.68	8.87	2.61	2.69	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
54	LB	4	10.100	1.174	41.463	30.80	0.1	2.68	8.77	2.58	2.65	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
55	LB	4	10.000	1.174	41.463	30.80	0.1	2.69	8.67	2.55	2.61	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
56	LB	4	9.900	1.174	41.463	30.80	0.1	2.69	8.57	2.53	2.57	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
57	LB	4	9.800	1.174	41.463	30.80	0.1	2.70	8.48	2.50	2.53	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
58	LB	4	9.700	1.174	41.463	30.80	0.1	2.71	8.38	2.47	2.49	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
59	LB	4	9.600	1.174	41.463	30.80	0.1	2.72	8.29	2.44	2.45	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
60	LB	4	9.500	1.174	41.463	30.80	0.1	2.73	8.20	2.41	2.42	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
61	LB	4	9.400	1.174	41.463	30.80	0.1	2.74	8.12	2.39	2.38	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
62	LB	4	9.300	1.174	41.463	30.80	0.1	2.75	8.03	2.36	2.35	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
63	LB	4	9.200	1.174	41.463	30.80	0.1	2.76	7.95	2.34	2.31	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
64	LB	4	9.100	1.174	41.463	30.80	0.1	2.78	7.87	2.31	2.28	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
65	LB	4	9.000	1.174	41.463	30.80	0.1	2.79	7.79	2.28	2.24	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
66	LB	4	8.900	1.174	41.463	30.80	0.1	2.81	7.71	2.26	2.21	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
67	LB	4	8.800	1.174	41.463	30.80	0.1	2.82	7.63	2.24	2.17	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
68	LB	4	8.700	1.174	41.463	30.80	0.1	2.84	7.56	2.21	2.14	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
69	LB	4	8.600	1.174	41.463	30.80	0.1	2.85	7.49	2.19	2.11	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
70	LB	4	8.500	1.174	41.463	30.80	0.1	2.87	7.41	2.17	2.08	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99
71	LB	4	8.400	1.174	41.463	30.80	0.1	2.88	7.33	2.14	2.05	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	7.452	0.679	0.20	0.26	0.06	0.26	0.00	0.99

CAPSULE SUMMARY FOR BAYOU L'EAU BLEU

IOR	REACH		DIST km	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	DO mg/L	BOD1 mg/L	BOD2 mg/L	NBOD mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	ORG-P mg/L	PO4-P mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
72	LB	5	8.300	1.174	41.463	30.80	0.1	2.88	7.18	2.13	2.02	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
73	LB	5	8.200	1.174	41.463	30.80	0.1	2.87	7.03	2.12	1.99	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
74	LB	5	8.100	1.174	41.463	30.80	0.1	2.87	6.88	2.11	1.96	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
75	LB	5	8.000	1.174	41.463	30.80	0.1	2.87	6.74	2.09	1.94	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
76	LB	5	7.900	1.174	41.463	30.80	0.1	2.88	6.60	2.08	1.91	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
77	LB	5	7.800	1.174	41.463	30.80	0.1	2.88	6.46	2.07	1.88	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97

78	LB	5	7.700	1.174	41.463	30.80	0.1	2.89	6.33	2.05	1.86	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
79	LB	5	7.600	1.174	41.463	30.80	0.1	2.89	6.20	2.04	1.83	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
80	LB	5	7.500	1.174	41.463	30.80	0.1	2.90	6.07	2.03	1.81	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
81	LB	5	7.400	1.174	41.463	30.80	0.1	2.91	5.95	2.02	1.78	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
82	LB	5	7.300	1.174	41.463	30.80	0.1	2.92	5.83	2.01	1.76	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
83	LB	5	7.200	1.174	41.463	30.80	0.1	2.93	5.71	2.00	1.73	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
84	LB	5	7.100	1.174	41.463	30.80	0.1	2.94	5.59	1.99	1.71	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
85	LB	5	7.000	1.174	41.463	30.80	0.1	2.96	5.48	1.97	1.69	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
86	LB	5	6.900	1.174	41.463	30.80	0.1	2.97	5.37	1.96	1.67	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
87	LB	5	6.800	1.174	41.463	30.80	0.1	2.99	5.27	1.95	1.64	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
88	LB	5	6.700	1.174	41.463	30.80	0.1	3.00	5.16	1.94	1.62	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.451	0.813	0.20	0.26	0.06	0.26	0.00	1.97
89	LB	5	6.600	1.174	41.463	30.80	0.1	3.02	5.06	1.93	1.60	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.26	0.00	1.97
90	LB	5	6.500	1.174	41.463	30.80	0.1	3.03	4.96	1.92	1.58	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.26	0.00	1.97
91	LB	5	6.400	1.174	41.463	30.80	0.1	3.05	4.86	1.91	1.56	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.26	0.00	1.97
92	LB	5	6.300	1.174	41.463	30.80	0.1	3.07	4.77	1.89	1.53	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.26	0.00	1.97
93	LB	6	6.200	1.174	41.463	30.80	0.1	3.09	4.70	1.84	1.50	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
94	LB	6	6.100	1.174	41.463	30.80	0.1	3.11	4.62	1.79	1.47	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
95	LB	6	6.000	1.174	41.463	30.80	0.1	3.13	4.55	1.75	1.43	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
96	LB	6	5.900	1.174	41.463	30.80	0.1	3.14	4.47	1.70	1.40	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
97	LB	6	5.800	1.174	41.463	30.80	0.1	3.16	4.40	1.66	1.37	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
98	LB	6	5.700	1.174	41.463	30.80	0.1	3.18	4.34	1.61	1.34	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
99	LB	6	5.600	1.174	41.463	30.80	0.1	3.20	4.27	1.57	1.31	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
100	LB	6	5.500	1.174	41.463	30.80	0.1	3.22	4.20	1.53	1.28	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
101	LB	6	5.400	1.174	41.463	30.80	0.1	3.25	4.14	1.50	1.25	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
102	LB	6	5.300	1.174	41.463	30.80	0.1	3.27	4.08	1.46	1.22	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
103	LB	6	5.200	1.174	41.463	30.80	0.1	3.29	4.02	1.42	1.19	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
104	LB	6	5.100	1.174	41.463	30.80	0.1	3.31	3.96	1.39	1.17	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
105	LB	6	5.000	1.174	41.463	30.80	0.1	3.33	3.90	1.36	1.14	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
106	LB	6	4.900	1.174	41.463	30.80	0.1	3.35	3.85	1.33	1.12	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
107	LB	6	4.800	1.174	41.463	30.80	0.1	3.37	3.79	1.30	1.09	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
108	LB	6	4.700	1.174	41.463	30.80	0.1	3.39	3.74	1.27	1.07	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
109	LB	6	4.600	1.174	41.463	30.80	0.1	3.41	3.68	1.24	1.04	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
110	LB	6	4.500	1.174	41.463	30.80	0.1	3.43	3.63	1.21	1.02	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
111	LB	6	4.400	1.174	41.463	30.80	0.1	3.46	3.58	1.19	1.00	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
112	LB	6	4.300	1.174	41.463	30.80	0.1	3.48	3.53	1.16	0.98	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
113	LB	6	4.200	1.174	41.463	30.80	0.1	3.50	3.49	1.14	0.95	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
114	LB	6	4.100	1.174	41.463	30.80	0.1	3.52	3.44	1.11	0.93	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
115	LB	6	4.000	1.174	41.463	30.80	0.1	3.54	3.40	1.09	0.91	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
116	LB	6	3.900	1.174	41.463	30.80	0.1	3.56	3.35	1.07	0.89	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
117	LB	6	3.800	1.174	41.463	30.80	0.1	3.58	3.31	1.05	0.87	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021224	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
118	LB	6	3.700	1.174	41.463	30.80	0.1	3.60	3.27	1.03	0.85	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021244	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
119	LB	6	3.600	1.174	41.463	30.80	0.1	3.62	3.23	1.01	0.84	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021270	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
120	LB	6	3.500	1.174	41.463	30.80	0.1	3.64	3.19	0.99	0.82	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021302	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
121	LB	6	3.400	1.174	41.463	30.80	0.1	3.66	3.15	0.97	0.80	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021338	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
122	LB	6	3.300	1.174	41.463	30.80	0.1	3.68	3.11	0.96	0.78	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021378	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
123	LB	6	3.200	1.174	41.463	30.80	0.1	3.70	3.07	0.94	0.77	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021422	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
124	LB	6	3.100	1.174	41.463	30.80	0.1	3.71	3.03	0.92	0.75	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021469	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
125	LB	6	3.000	1.174	41.463	30.80	0.1	3.73	3.00	0.91	0.73	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021518	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
126	LB	6	2.900	1.174	41.463	30.80	0.1	3.75	2.96	0.89	0.72	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021571	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
127	LB	6	2.800	1.174	41.463	30.80	0.1	3.77	2.93	0.88	0.70	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021625	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
128	LB	6	2.700	1.174	41.463	30.80	0.1	3.79	2.90	0.86	0.69	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021682	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
129	LB	6	2.600	1.174	41.463	30.80	0.1	3.80	2.87	0.85	0.67	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021741	7.450	0.813	0.20	0.26	0.06	0.65	0.00	1.97
130	LB	6	2.500	1.174	41.463	30.80	0.1	3.82	2.84	0.84	0.66	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021802	7.449	0.813	0.20	0.26	0.06	0.65	0.00	1.97
131	LB	7	2.400	1.174	41.463	30.80	0.1	3.84	2.82	0.83	0.66	0.00	0.00	0.00	0.00	0.00	10.0	0.6	1.49	40.5	0.019437	0.020017	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
132	LB	7	2.300	1.174	41.463	30.80	0.1	3.86	2.80	0.83	0.65	0.00	0.00	0.00	0.00	0.00	10.0	0.6	1.49	40.5	0.019437	0.020062	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
133	LB	7	2.200	1.174	41.463	30.80	0.1	3.88	2.79	0.82	0.65	0.00	0.00	0.00	0.00	0.00	10.0	0.6	1.49	40.5	0.019437	0.020108	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
134	LB	7	2.100	1.174	41.463	30.80	0.1	3.90	2.77	0.82	0.65	0.00	0.00	0.00	0.00	0.00	10.0	0.6	1.49	40.5	0.019437	0.020155	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
135	LB	7	2.000	1.174	41.463	30.80	0.1	3.92	2.76	0.81	0.64	0.00	0.00	0.00	0.00	0.00	10.0	0.6	1.49	40.5	0.019437	0.020203	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
136	LB	7	1.900	1.174	41.463	30.80	0.1	3.93	2.74	0.81	0.64	0.00	0.00	0.00	0.00	0.00	10.0	0.6	1.49	40.5	0.019437	0.020252	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
137	LB	7	1.800	1.174	41.463	30.80	0.1	3.95	2.73	0.81	0.64	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020301	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
138	LB	7	1.700	1.174	41.463	30.80	0.1	3.97	2.71	0.80	0.63	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020351	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
139	LB	7	1.600	1.174	41.463	30.80	0.1	3.98	2.70	0.80	0.63	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020402	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
140	LB	7	1.500	1.174	41.463	30.80	0.1	4.00	2.68	0.79	0.63	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020454	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
141	LB	7	1.400	1.174	41.463	30.80	0.1	4.02	2.67	0.79	0.63	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020507	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
142	LB	7	1.300	1.174	41.463	30.80	0.1	4.03	2.66	0.79	0.62	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020560	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
143	LB	7	1.200	1.174	41.463	30.80	0.1	4.05	2.65	0.78	0.62	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020614	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
144	LB	7	1.100	1.174	41.463	30.80	0.1	4.06	2.63	0.78	0.62	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020669	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
145	LB	7	1.000	1.174	41.463	30.80	0.1	4.08	2.62	0.78	0.61	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020724	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48

CAPSULE SUMMARY FOR BAYOU L'EAU BLEU

IOR	REACH		DIST km	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	DO mg/L	BOD1 mg/L	BOD2 mg/L	NBOD mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	ORG-P mg/L	PO4-P mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
146	LB	7	0.900	1.174	41.463	30.80	0.1	4.09	2.61	0.77	0.61	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020780	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
147	LB	7	0.800	1.174	41.463	30.80	0.1	4.10	2.60	0.77	0.61	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020836	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
148	LB	7	0.700	1.174	41.463	30.80	0.1	4.12	2.59	0.77	0.61	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020893	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
149	LB	7	0.600	1.174	41.463	30.80	0.1	4.13	2.58	0.77	0.61	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020950	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
150	LB	7	0.500	1.174	41.463	30.80	0.1	4.14	2.57	0.76	0.60	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.021008	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
151	LB	7	0.400	1.174	41.463	30.80	0.1	4.15	2.56	0.76	0.60	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.021067	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48

152	LB	7	0.300	1.174	41.463	30.80	0.1	4.16	2.56	0.75	0.61	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.021126	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
153	LB	7	0.200	1.174	41.463	30.80	0.1	4.16	2.59	0.74	0.65	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.021186	7.450	0.573	0.20	0.26	0.06	0.65	0.00	1.48
154	LB	7	0.100	1.174	41.463	30.80	0.1	4.13	2.72	0.68	0.79	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.021246	7.450	0.574	0.20	0.26	0.06	0.65	0.00	1.48
155	LB	7	0.000	1.174	41.463	30.80	0.1	3.99	3.28	0.45	1.38	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.021306	7.450	0.574	0.20	0.26	0.06	0.65	0.00	1.48

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 1 BLB FROM CC TO BLB01 WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

********** INPUTS FOR REACH 1 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
1	HDWTR	1.07230	37.86771	30.80	0.09	193.00	13.40	5.12	7.78	1.82	7.78	1.82	1.79	0.00	0.00	0.00	10.00	0.00	0.00
6	WSTLD	0.02110	0.74514	30.80	0.13	277.00	18.60	2.30	3.72	1.84	3.72	1.84	2.32	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 1 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
1	15.50	15.40	1.07230	37.86771	0.0	0.015837	0.07	0.07	1.22	55.50	6771.0	5550.0	67.7	350.	0.000115	0.430	0.015837	0.0000000
2	15.40	15.30	1.07230	37.86771	0.0	0.015837	0.07	0.15	1.22	55.50	6771.0	5550.0	67.7	699.	0.000230	0.430	0.015837	0.0000000
3	15.30	15.20	1.07230	37.86771	0.0	0.015837	0.07	0.22	1.22	55.50	6771.0	5550.0	67.7	1049.	0.000344	0.430	0.015837	0.0000000
4	15.20	15.10	1.07230	37.86771	0.0	0.015837	0.07	0.29	1.22	55.50	6771.0	5550.0	67.7	1399.	0.000459	0.430	0.015837	0.0000000
5	15.10	15.00	1.07230	37.86771	0.0	0.015837	0.07	0.37	1.22	55.50	6771.0	5550.0	67.7	1748.	0.000574	0.430	0.015837	0.0000000
6	15.00	14.90	1.09340	38.61285	1.9	0.016148	0.07	0.44	1.22	55.50	6771.0	5550.0	67.7	2098.	0.000689	0.438	0.016148	0.0000000
TOT							0.44				40626.0	33300.0						0.0000000
AVG						0.015888			1.22	55.50			67.7					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 1 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	15.400	7.45	0.70	0.20	0.52	0.00	0.00	0.06	0.26	0.00	2.47	2.47	2.47	0.23	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	15.300	7.45	0.70	0.20	0.52	0.00	0.00	0.06	0.26	0.00	2.47	2.47	2.47	0.22	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	15.200	7.45	0.70	0.20	0.52	0.00	0.00	0.06	0.26	0.00	2.47	2.47	2.47	0.22	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	15.100	7.45	0.70	0.20	0.52	0.00	0.00	0.06	0.26	0.00	2.47	2.47	2.47	0.22	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	15.000	7.45	0.70	0.20	0.52	0.00	0.00	0.06	0.26	0.00	2.47	2.47	2.47	0.22	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	14.900	7.45	0.70	0.20	0.52	0.00	0.00	0.06	0.26	0.00	2.47	2.47	2.47	0.22	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.57	0.12	0.40	0.00	0.00	0.04	0.20	0.00	1.25			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 1 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
1	15.400	30.80	0.09	193.00	13.40	4.99	7.46	1.89	7.46	1.89	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
2	15.300	30.80	0.09	193.00	13.40	4.83	7.10	1.98	7.10	1.98	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
3	15.200	30.80	0.09	193.02	13.40	4.69	6.75	2.07	6.75	2.07	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
4	15.100	30.80	0.09	193.07	13.40	4.56	6.42	2.15	6.42	2.15	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
5	15.000	30.80	0.09	193.35	13.42	4.44	6.12	2.23	6.12	2.23	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
6	14.900	30.80	0.09	194.62	13.50	4.31	5.90	2.29	5.90	2.29	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 1 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
1	15.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
2	15.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
3	15.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
4	15.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
5	15.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
6	14.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU — WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 2 BLB01 TO BARGE CANAL — WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

********** INPUTS FOR REACH 2 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
7	UPR RCH	1.09340	38.61285	30.80	0.09	194.62	13.50	4.31	5.90	2.29	5.90	2.29	1.81	0.00	0.00	0.00	10.00	0.00	0.00
22	WSTLD	0.08070	2.84988	30.80	0.08	184.00	13.50	2.30	8.45	1.83	8.45	1.83	2.07	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 2 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
7	14.90	14.80	1.09340	38.61285	1.9	0.016148	0.07	0.51	1.22	55.50	6771.0	5550.0	67.7	2448.	0.000803	0.438	0.016148	0.0000000
8	14.80	14.70	1.09340	38.61285	1.9	0.016148	0.07	0.58	1.22	55.50	6771.0	5550.0	67.7	2797.	0.000918	0.438	0.016148	0.0000000
9	14.70	14.60	1.09340	38.61285	1.9	0.016148	0.07	0.65	1.22	55.50	6771.0	5550.0	67.7	3147.	0.001033	0.438	0.016148	0.0000000
10	14.60	14.50	1.09340	38.61285	1.9	0.016148	0.07	0.72	1.22	55.50	6771.0	5550.0	67.7	3496.	0.001148	0.438	0.016148	0.0000000
11	14.50	14.40	1.09340	38.61285	1.9	0.016148	0.07	0.80	1.22	55.50	6771.0	5550.0	67.7	3846.	0.001262	0.438	0.016148	0.0000000
12	14.40	14.30	1.09340	38.61285	1.9	0.016148	0.07	0.87	1.22	55.50	6771.0	5550.0	67.7	4196.	0.001377	0.438	0.016148	0.0000000
13	14.30	14.20	1.09340	38.61285	1.9	0.016148	0.07	0.94	1.22	55.50	6771.0	5550.0	67.7	4545.	0.001492	0.438	0.016148	0.0000000
14	14.20	14.10	1.09340	38.61285	1.9	0.016148	0.07	1.01	1.22	55.50	6771.0	5550.0	67.7	4895.	0.001607	0.438	0.016148	0.0000000
15	14.10	14.00	1.09340	38.61285	1.9	0.016148	0.07	1.08	1.22	55.50	6771.0	5550.0	67.7	5245.	0.001721	0.438	0.016148	0.0000000
16	14.00	13.90	1.09340	38.61285	1.9	0.016148	0.07	1.15	1.22	55.50	6771.0	5550.0	67.7	5594.	0.001836	0.438	0.016148	0.0000000
17	13.90	13.80	1.09340	38.61285	1.9	0.016148	0.07	1.23	1.22	55.50	6771.0	5550.0	67.7	5944.	0.001951	0.438	0.016148	0.0000000
18	13.80	13.70	1.09340	38.61285	1.9	0.016148	0.07	1.30	1.22	55.50	6771.0	5550.0	67.7	6294.	0.002066	0.438	0.016148	0.0000000
19	13.70	13.60	1.09340	38.61285	1.9	0.016148	0.07	1.37	1.22	55.50	6771.0	5550.0	67.7	6643.	0.002180	0.438	0.016148	0.0000000
20	13.60	13.50	1.09340	38.61285	1.9	0.016148	0.07	1.44	1.22	55.50	6771.0	5550.0	67.7	6993.	0.002295	0.438	0.016148	0.0000000
21	13.50	13.40	1.09340	38.61285	1.9	0.016148	0.07	1.51	1.22	55.50	6771.0	5550.0	67.7	7343.	0.002410	0.438	0.016148	0.0000000
22	13.40	13.30	1.17410	41.46273	8.7	0.017340	0.07	1.58	1.22	55.50	6771.0	5550.0	67.7	7692.	0.002525	0.471	0.017340	0.0000000
TOT							1.14				108336.0	88800.0						0.0000000
AVG						0.016218			1.22	55.50			67.7					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 2 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
7	14.800	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.22	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	14.700	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.22	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	14.600	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.22	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	14.500	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.22	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	14.400	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.22	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

12	14.300	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.21	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	14.200	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.21	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14.100	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.21	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	14.000	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.21	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	13.900	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.21	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	13.800	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.21	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	13.700	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.21	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	13.600	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.21	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	13.500	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.21	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	13.400	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.21	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	13.300	7.45	0.70	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.48	1.48	1.48	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.57	0.12	0.20	0.00	0.00	0.04	0.20	0.00	0.75			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00	0.00	

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 2 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
7	14.800	30.80	0.09	194.62	13.50	4.26	6.13	2.32	6.13	2.32	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
8	14.700	30.80	0.09	194.62	13.50	4.20	6.35	2.35	6.35	2.35	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
9	14.600	30.80	0.09	194.62	13.50	4.15	6.56	2.38	6.56	2.38	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
10	14.500	30.80	0.09	194.62	13.50	4.09	6.77	2.41	6.77	2.41	2.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
11	14.400	30.80	0.09	194.62	13.50	4.04	6.97	2.43	6.97	2.43	2.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
12	14.300	30.80	0.09	194.62	13.50	3.98	7.16	2.46	7.16	2.46	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
13	14.200	30.80	0.09	194.62	13.50	3.92	7.35	2.49	7.35	2.49	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
14	14.100	30.80	0.09	194.62	13.50	3.86	7.53	2.51	7.53	2.51	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
15	14.000	30.80	0.09	194.62	13.50	3.81	7.71	2.54	7.71	2.54	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
16	13.900	30.80	0.09	194.62	13.50	3.75	7.88	2.56	7.88	2.56	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
17	13.800	30.80	0.09	194.62	13.50	3.69	8.05	2.58	8.05	2.58	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
18	13.700	30.80	0.09	194.62	13.50	3.63	8.21	2.61	8.21	2.61	2.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
19	13.600	30.80	0.09	194.61	13.50	3.57	8.37	2.63	8.37	2.63	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
20	13.500	30.80	0.09	194.59	13.50	3.51	8.52	2.65	8.52	2.65	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
21	13.400	30.80	0.09	194.46	13.50	3.44	8.66	2.66	8.66	2.66	2.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
22	13.300	30.80	0.09	193.89	13.50	3.34	8.80	2.64	8.80	2.64	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 2 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
7	14.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
8	14.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
9	14.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
10	14.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
11	14.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
12	14.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
13	14.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
14	14.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
15	14.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
16	13.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
17	13.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
18	13.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
19	13.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20	13.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
21	13.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
22	13.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 3 BARGE CANAL TO RKM 12.0 WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

********** INPUTS FOR REACH 3 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
23	UPR RCH	1.17410	41.46273	30.80	0.09	193.89	13.50	3.34	8.80	2.64	8.80	2.64	2.51	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 3 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
23	13.30	13.20	1.17410	41.46273	8.7	0.023346	0.05	1.63	1.27	39.60	5029.2	3960.0	50.3	7942.	0.003509	0.655	0.023346	0.0000000
24	13.20	13.10	1.17410	41.46273	8.7	0.023346	0.05	1.68	1.27	39.60	5029.2	3960.0	50.3	8191.	0.003619	0.655	0.023346	0.0000000
25	13.10	13.00	1.17410	41.46273	8.7	0.023346	0.05	1.73	1.27	39.60	5029.2	3960.0	50.3	8441.	0.003730	0.655	0.023346	0.0000000
26	13.00	12.90	1.17410	41.46273	8.7	0.023346	0.05	1.78	1.27	39.60	5029.2	3960.0	50.3	8690.	0.003840	0.655	0.023346	0.0000000
27	12.90	12.80	1.17410	41.46273	8.7	0.023346	0.05	1.83	1.27	39.60	5029.2	3960.0	50.3	8940.	0.003950	0.655	0.023346	0.0000000
28	12.80	12.70	1.17410	41.46273	8.7	0.023346	0.05	1.88	1.27	39.60	5029.2	3960.0	50.3	9189.	0.004060	0.655	0.023346	0.0000000
29	12.70	12.60	1.17410	41.46273	8.7	0.023346	0.05	1.93	1.27	39.60	5029.2	3960.0	50.3	9439.	0.004171	0.655	0.023346	0.0000000
30	12.60	12.50	1.17410	41.46273	8.7	0.023346	0.05	1.98	1.27	39.60	5029.2	3960.0	50.3	9688.	0.004281	0.655	0.023346	0.0000000
31	12.50	12.40	1.17410	41.46273	8.7	0.023346	0.05	2.03	1.27	39.60	5029.2	3960.0	50.3	9938.	0.004391	0.655	0.023346	0.0000000
32	12.40	12.30	1.17410	41.46273	8.7	0.023346	0.05	2.07	1.27	39.60	5029.2	3960.0	50.3	10187.	0.004501	0.655	0.023346	0.0000000
33	12.30	12.20	1.17410	41.46273	8.7	0.023346	0.05	2.12	1.27	39.60	5029.2	3960.0	50.3	10437.	0.004612	0.655	0.023346	0.0000000
34	12.20	12.10	1.17410	41.46273	8.7	0.023346	0.05	2.17	1.27	39.60	5029.2	3960.0	50.3	10686.	0.004722	0.655	0.023346	0.0000000
35	12.10	12.00	1.17410	41.46273	8.7	0.023346	0.05	2.22	1.27	39.60	5029.2	3960.0	50.3	10936.	0.004832	0.655	0.023346	0.0000000
TOT							0.64				65379.6	51480.0						0.0000000
AVG						0.023346			1.27	39.60			50.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 3 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
23	13.200	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	13.100	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	13.000	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	12.900	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	12.800	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	12.700	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	12.600	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	12.500	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	12.400	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	12.300	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	12.200	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	12.100	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	12.000	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.56	0.12	0.20	0.00	0.00	0.04	0.20	0.00	0.50			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 3 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
23	13.200	30.80	0.09	193.89	13.50	3.32	9.02	2.70	9.02	2.70	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
24	13.100	30.80	0.09	193.89	13.50	3.29	9.22	2.75	9.22	2.75	2.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
25	13.000	30.80	0.09	193.89	13.50	3.26	9.43	2.80	9.43	2.80	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
26	12.900	30.80	0.09	193.89	13.50	3.24	9.62	2.85	9.62	2.85	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
27	12.800	30.80	0.09	193.89	13.50	3.21	9.82	2.90	9.82	2.90	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
28	12.700	30.80	0.09	193.89	13.50	3.17	10.01	2.94	10.01	2.94	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

29	12.600	30.80	0.09	193.89	13.50	3.14	10.19	2.99	10.19	2.99	3.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
30	12.500	30.80	0.09	193.89	13.50	3.11	10.38	3.04	10.38	3.04	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
31	12.400	30.80	0.09	193.89	13.50	3.07	10.55	3.08	10.55	3.08	3.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
32	12.300	30.80	0.09	193.89	13.50	3.03	10.73	3.13	10.73	3.13	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
33	12.200	30.80	0.09	193.89	13.50	2.99	10.89	3.17	10.89	3.17	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
34	12.100	30.80	0.09	193.89	13.50	2.96	11.05	3.21	11.05	3.21	3.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
35	12.000	30.80	0.09	193.89	13.50	2.92	11.14	3.24	11.14	3.24	3.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 3 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
23	13.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
24	13.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
25	13.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
26	12.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
27	12.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
28	12.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
29	12.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
30	12.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
31	12.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
32	12.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
33	12.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
34	12.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
35	12.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0

20 DEG C RATE 0.000 0.000 0.000 0.000 0.000 0.000 0.000

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 4 BLB FROM RKM 12.0 TO RKM 8.4 WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

********** INPUTS FOR REACH 4 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
36	UPR RCH	1.17410	41.46273	30.80	0.09	193.89	13.50	2.92	11.14	3.24	11.14	3.24	3.54	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 4 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
36	12.00	11.90	1.17410	41.46273	8.7	0.023346	0.05	2.27	1.27	39.60	5029.2	3960.0	50.3	11185.	0.004942	0.655	0.023346	0.0000000
37	11.90	11.80	1.17410	41.46273	8.7	0.023346	0.05	2.32	1.27	39.60	5029.2	3960.0	50.3	11435.	0.005052	0.655	0.023346	0.0000000
38	11.80	11.70	1.17410	41.46273	8.7	0.023346	0.05	2.37	1.27	39.60	5029.2	3960.0	50.3	11684.	0.005163	0.655	0.023346	0.0000000
39	11.70	11.60	1.17410	41.46273	8.7	0.023346	0.05	2.42	1.27	39.60	5029.2	3960.0	50.3	11933.	0.005273	0.655	0.023346	0.0000000
40	11.60	11.50	1.17410	41.46273	8.7	0.023346	0.05	2.47	1.27	39.60	5029.2	3960.0	50.3	12183.	0.005383	0.655	0.023346	0.0000000
41	11.50	11.40	1.17410	41.46273	8.7	0.023346	0.05	2.52	1.27	39.60	5029.2	3960.0	50.3	12432.	0.005493	0.655	0.023346	0.0000000
42	11.40	11.30	1.17410	41.46273	8.7	0.023346	0.05	2.57	1.27	39.60	5029.2	3960.0	50.3	12682.	0.005604	0.655	0.023346	0.0000000
43	11.30	11.20	1.17410	41.46273	8.7	0.023346	0.05	2.62	1.27	39.60	5029.2	3960.0	50.3	12931.	0.005714	0.655	0.023346	0.0000000
44	11.20	11.10	1.17410	41.46273	8.7	0.023346	0.05	2.67	1.27	39.60	5029.2	3960.0	50.3	13181.	0.005824	0.655	0.023346	0.0000000
45	11.10	11.00	1.17410	41.46273	8.7	0.023346	0.05	2.72	1.27	39.60	5029.2	3960.0	50.3	13430.	0.005934	0.655	0.023346	0.0000000
46	11.00	10.90	1.17410	41.46273	8.7	0.023346	0.05	2.77	1.27	39.60	5029.2	3960.0	50.3	13680.	0.006045	0.655	0.023346	0.0000000
47	10.90	10.80	1.17410	41.46273	8.7	0.023346	0.05	2.82	1.27	39.60	5029.2	3960.0	50.3	13929.	0.006155	0.655	0.023346	0.0000000
48	10.80	10.70	1.17410	41.46273	8.7	0.023346	0.05	2.87	1.27	39.60	5029.2	3960.0	50.3	14179.	0.006265	0.655	0.023346	0.0000000
49	10.70	10.60	1.17410	41.46273	8.7	0.023346	0.05	2.92	1.27	39.60	5029.2	3960.0	50.3	14428.	0.006375	0.655	0.023346	0.0000000
50	10.60	10.50	1.17410	41.46273	8.7	0.023346	0.05	2.97	1.27	39.60	5029.2	3960.0	50.3	14678.	0.006486	0.655	0.023346	0.0000000

51	10.50	10.40	1.17410	41.46273	8.7	0.023346	0.05	3.02	1.27	39.60	5029.2	3960.0	50.3	14927.	0.006596	0.655	0.023346	0.0000000
52	10.40	10.30	1.17410	41.46273	8.7	0.023346	0.05	3.07	1.27	39.60	5029.2	3960.0	50.3	15177.	0.006706	0.655	0.023346	0.0000000
53	10.30	10.20	1.17410	41.46273	8.7	0.023346	0.05	3.12	1.27	39.60	5029.2	3960.0	50.3	15426.	0.006816	0.655	0.023346	0.0000000
54	10.20	10.10	1.17410	41.46273	8.7	0.023346	0.05	3.17	1.27	39.60	5029.2	3960.0	50.3	15676.	0.006927	0.655	0.023346	0.0000000
55	10.10	10.00	1.17410	41.46273	8.7	0.023346	0.05	3.21	1.27	39.60	5029.2	3960.0	50.3	15925.	0.007037	0.655	0.023346	0.0000000
56	10.00	9.90	1.17410	41.46273	8.7	0.023346	0.05	3.26	1.27	39.60	5029.2	3960.0	50.3	16175.	0.007147	0.655	0.023346	0.0000000
57	9.90	9.80	1.17410	41.46273	8.7	0.023346	0.05	3.31	1.27	39.60	5029.2	3960.0	50.3	16424.	0.007257	0.655	0.023346	0.0000000
58	9.80	9.70	1.17410	41.46273	8.7	0.023346	0.05	3.36	1.27	39.60	5029.2	3960.0	50.3	16674.	0.007367	0.655	0.023346	0.0000000
59	9.70	9.60	1.17410	41.46273	8.7	0.023346	0.05	3.41	1.27	39.60	5029.2	3960.0	50.3	16923.	0.007478	0.655	0.023346	0.0000000
60	9.60	9.50	1.17410	41.46273	8.7	0.023346	0.05	3.46	1.27	39.60	5029.2	3960.0	50.3	17173.	0.007588	0.655	0.023346	0.0000000
61	9.50	9.40	1.17410	41.46273	8.7	0.023346	0.05	3.51	1.27	39.60	5029.2	3960.0	50.3	17422.	0.007698	0.655	0.023346	0.0000000
62	9.40	9.30	1.17410	41.46273	8.7	0.023346	0.05	3.56	1.27	39.60	5029.2	3960.0	50.3	17672.	0.007808	0.655	0.023346	0.0000000
63	9.30	9.20	1.17410	41.46273	8.7	0.023346	0.05	3.61	1.27	39.60	5029.2	3960.0	50.3	17921.	0.007919	0.655	0.023346	0.0000000
64	9.20	9.10	1.17410	41.46273	8.7	0.023346	0.05	3.66	1.27	39.60	5029.2	3960.0	50.3	18170.	0.008029	0.655	0.023346	0.0000000
65	9.10	9.00	1.17410	41.46273	8.7	0.023346	0.05	3.71	1.27	39.60	5029.2	3960.0	50.3	18420.	0.008139	0.655	0.023346	0.0000000
66	9.00	8.90	1.17410	41.46273	8.7	0.023346	0.05	3.76	1.27	39.60	5029.2	3960.0	50.3	18669.	0.008249	0.655	0.023346	0.0000000
67	8.90	8.80	1.17410	41.46273	8.7	0.023346	0.05	3.81	1.27	39.60	5029.2	3960.0	50.3	18919.	0.008360	0.655	0.023346	0.0000000
68	8.80	8.70	1.17410	41.46273	8.7	0.023346	0.05	3.86	1.27	39.60	5029.2	3960.0	50.3	19168.	0.008470	0.655	0.023346	0.0000000
69	8.70	8.60	1.17410	41.46273	8.7	0.023346	0.05	3.91	1.27	39.60	5029.2	3960.0	50.3	19418.	0.008580	0.655	0.023346	0.0000000
70	8.60	8.50	1.17410	41.46273	8.7	0.023346	0.05	3.96	1.27	39.60	5029.2	3960.0	50.3	19667.	0.008690	0.655	0.023346	0.0000000
71	8.50	8.40	1.17410	41.46273	8.7	0.023346	0.05	4.01	1.27	39.60	5029.2	3960.0	50.3	19917.	0.008801	0.655	0.023346	0.0000000
TOT							1.78				181051.3	142560.0						0.0000000
AVG						0.023346			1.27	39.60			50.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 4 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
36	11.900	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	11.800	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	11.700	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	11.600	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	11.500	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	11.400	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	11.300	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	11.200	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	11.100	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	11.000	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	10.900	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	10.800	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	10.700	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	10.600	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	10.500	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	10.400	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	10.300	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	10.200	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	10.100	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	10.000	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	9.900	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	9.800	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	9.700	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	9.600	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	9.500	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	9.400	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	9.300	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	9.200	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	9.100	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	9.000	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

66	8.900	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	8.800	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	8.700	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	8.600	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	8.500	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	8.400	7.45	0.68	0.20	0.26	0.00	0.00	0.06	0.26	0.00	0.99	0.99	0.99	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.56	0.12	0.20	0.00	0.00	0.04	0.20	0.00	0.50			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00	0.00	

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 4 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
36	11.900	30.80	0.09	193.89	13.50	2.88	10.99	3.20	10.99	3.20	3.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
37	11.800	30.80	0.09	193.89	13.50	2.85	10.84	3.16	10.84	3.16	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
38	11.700	30.80	0.09	193.89	13.50	2.82	10.70	3.12	10.70	3.12	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
39	11.600	30.80	0.09	193.89	13.50	2.80	10.56	3.08	10.56	3.08	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
40	11.500	30.80	0.09	193.89	13.50	2.77	10.42	3.05	10.42	3.05	3.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
41	11.400	30.80	0.09	193.89	13.50	2.75	10.28	3.01	10.28	3.01	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
42	11.300	30.80	0.09	193.89	13.50	2.74	10.15	2.97	10.15	2.97	3.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
43	11.200	30.80	0.09	193.89	13.50	2.72	10.02	2.94	10.02	2.94	3.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
44	11.100	30.80	0.09	193.89	13.50	2.71	9.89	2.90	9.89	2.90	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
45	11.000	30.80	0.09	193.89	13.50	2.70	9.77	2.87	9.77	2.87	3.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
46	10.900	30.80	0.09	193.89	13.50	2.69	9.65	2.84	9.65	2.84	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
47	10.800	30.80	0.09	193.89	13.50	2.68	9.53	2.80	9.53	2.80	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
48	10.700	30.80	0.09	193.89	13.50	2.68	9.41	2.77	9.41	2.77	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
49	10.600	30.80	0.09	193.89	13.50	2.67	9.30	2.74	9.30	2.74	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
50	10.500	30.80	0.09	193.89	13.50	2.67	9.19	2.71	9.19	2.71	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
51	10.400	30.80	0.09	193.89	13.50	2.67	9.08	2.67	9.08	2.67	2.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
52	10.300	30.80	0.09	193.89	13.50	2.67	8.97	2.64	8.97	2.64	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
53	10.200	30.80	0.09	193.89	13.50	2.68	8.87	2.61	8.87	2.61	2.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
54	10.100	30.80	0.09	193.89	13.50	2.68	8.77	2.58	8.77	2.58	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
55	10.000	30.80	0.09	193.89	13.50	2.69	8.67	2.55	8.67	2.55	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
56	9.900	30.80	0.09	193.89	13.50	2.69	8.57	2.53	8.57	2.53	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
57	9.800	30.80	0.09	193.89	13.50	2.70	8.48	2.50	8.48	2.50	2.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
58	9.700	30.80	0.09	193.89	13.50	2.71	8.38	2.47	8.38	2.47	2.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
59	9.600	30.80	0.09	193.89	13.50	2.72	8.29	2.44	8.29	2.44	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
60	9.500	30.80	0.09	193.89	13.50	2.73	8.20	2.41	8.20	2.41	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
61	9.400	30.80	0.09	193.89	13.50	2.74	8.12	2.39	8.12	2.39	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
62	9.300	30.80	0.09	193.89	13.50	2.75	8.03	2.36	8.03	2.36	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
63	9.200	30.80	0.09	193.89	13.50	2.76	7.95	2.34	7.95	2.34	2.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
64	9.100	30.80	0.09	193.89	13.50	2.78	7.87	2.31	7.87	2.31	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
65	9.000	30.80	0.09	193.89	13.50	2.79	7.79	2.28	7.79	2.28	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
66	8.900	30.80	0.09	193.89	13.50	2.81	7.71	2.26	7.71	2.26	2.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
67	8.800	30.80	0.09	193.89	13.50	2.82	7.63	2.24	7.63	2.24	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
68	8.700	30.80	0.09	193.89	13.50	2.84	7.56	2.21	7.56	2.21	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
69	8.600	30.80	0.09	193.89	13.50	2.85	7.49	2.19	7.49	2.19	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
70	8.500	30.80	0.09	193.89	13.50	2.87	7.41	2.17	7.41	2.17	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
71	8.400	30.80	0.09	193.89	13.50	2.88	7.33	2.14	7.33	2.14	2.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 4 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
36	11.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
37	11.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
38	11.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
39	11.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
40	11.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
41	11.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
42	11.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
43	11.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
44	11.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
45	11.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
46	10.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
47	10.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0

48	10.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
49	10.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
50	10.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
51	10.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
52	10.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
53	10.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
54	10.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
55	10.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
56	9.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
57	9.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
58	9.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
59	9.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
60	9.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
61	9.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
62	9.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
63	9.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
64	9.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
65	9.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
66	8.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
67	8.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
68	8.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
69	8.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
70	8.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
71	8.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 5 BLB FROM RKM 8.4 TO BLB05 WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

********** INPUTS FOR REACH 5 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
72	UPR RCH	1.17410	41.46273	30.80	0.09	193.89	13.50	2.88	7.33	2.14	7.33	2.14	2.05	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 5 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
72	8.40	8.30	1.17410	41.46273	8.7	0.021218	0.05	4.06	1.05	52.70	5533.5	5270.0	55.3	20249.	0.008132	0.508	0.021218	0.0000000
73	8.30	8.20	1.17410	41.46273	8.7	0.021218	0.05	4.12	1.05	52.70	5533.5	5270.0	55.3	20581.	0.008265	0.508	0.021218	0.0000000
74	8.20	8.10	1.17410	41.46273	8.7	0.021218	0.05	4.17	1.05	52.70	5533.5	5270.0	55.3	20913.	0.008398	0.508	0.021218	0.0000000
75	8.10	8.00	1.17410	41.46273	8.7	0.021218	0.05	4.23	1.05	52.70	5533.5	5270.0	55.3	21245.	0.008532	0.508	0.021218	0.0000000
76	8.00	7.90	1.17410	41.46273	8.7	0.021218	0.05	4.28	1.05	52.70	5533.5	5270.0	55.3	21577.	0.008665	0.508	0.021218	0.0000000
77	7.90	7.80	1.17410	41.46273	8.7	0.021218	0.05	4.34	1.05	52.70	5533.5	5270.0	55.3	21909.	0.008798	0.508	0.021218	0.0000000
78	7.80	7.70	1.17410	41.46273	8.7	0.021218	0.05	4.39	1.05	52.70	5533.5	5270.0	55.3	22241.	0.008932	0.508	0.021218	0.0000000
79	7.70	7.60	1.17410	41.46273	8.7	0.021218	0.05	4.44	1.05	52.70	5533.5	5270.0	55.3	22573.	0.009065	0.508	0.021218	0.0000000
80	7.60	7.50	1.17410	41.46273	8.7	0.021218	0.05	4.50	1.05	52.70	5533.5	5270.0	55.3	22905.	0.009198	0.508	0.021218	0.0000000
81	7.50	7.40	1.17410	41.46273	8.7	0.021218	0.05	4.55	1.05	52.70	5533.5	5270.0	55.3	23237.	0.009332	0.508	0.021218	0.0000000
82	7.40	7.30	1.17410	41.46273	8.7	0.021218	0.05	4.61	1.05	52.70	5533.5	5270.0	55.3	23569.	0.009465	0.508	0.021218	0.0000000
83	7.30	7.20	1.17410	41.46273	8.7	0.021218	0.05	4.66	1.05	52.70	5533.5	5270.0	55.3	23901.	0.009598	0.508	0.021218	0.0000000
84	7.20	7.10	1.17410	41.46273	8.7	0.021218	0.05	4.72	1.05	52.70	5533.5	5270.0	55.3	24233.	0.009732	0.508	0.021218	0.0000000
85	7.10	7.00	1.17410	41.46273	8.7	0.021218	0.05	4.77	1.05	52.70	5533.5	5270.0	55.3	24565.	0.009865	0.508	0.021218	0.0000000
86	7.00	6.90	1.17410	41.46273	8.7	0.021218	0.05	4.83	1.05	52.70	5533.5	5270.0	55.3	24897.	0.009998	0.508	0.021218	0.0000000
87	6.90	6.80	1.17410	41.46273	8.7	0.021218	0.05	4.88	1.05	52.70	5533.5	5270.0	55.3	25229.	0.010132	0.508	0.021218	0.0000000
88	6.80	6.70	1.17410	41.46273	8.7	0.021218	0.05	4.94	1.05	52.70	5533.5	5270.0	55.3	25561.	0.010265	0.508	0.021218	0.0000000

89	6.70	6.60	1.17410	41.46273	8.7	0.021218	0.05	4.99	1.05	52.70	5533.5	5270.0	55.3	25893.	0.010398	0.508	0.021218	0.0000000
90	6.60	6.50	1.17410	41.46273	8.7	0.021218	0.05	5.04	1.05	52.70	5533.5	5270.0	55.3	26225.	0.010532	0.508	0.021218	0.0000000
91	6.50	6.40	1.17410	41.46273	8.7	0.021218	0.05	5.10	1.05	52.70	5533.5	5270.0	55.3	26557.	0.010665	0.508	0.021218	0.0000000
92	6.40	6.30	1.17410	41.46273	8.7	0.021218	0.05	5.15	1.05	52.70	5533.5	5270.0	55.3	26889.	0.010798	0.508	0.021218	0.0000000
TOT							1.15				116203.5	110670.0						0.0000000
AVG						0.021218			1.05	52.70			55.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 5 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
72	8.300	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	8.200	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	8.100	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	8.000	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	7.900	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	7.800	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	7.700	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	7.600	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	7.500	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	7.400	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82	7.300	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	7.200	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	7.100	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	7.000	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	6.900	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	6.800	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	6.700	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	6.600	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	6.500	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	6.400	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	6.300	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.26	0.00	1.97	1.97	1.97	0.20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.67	0.12	0.20	0.00	0.00	0.04	0.20	0.00	1.00			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 5 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
72	8.300	30.80	0.09	193.89	13.50	2.88	7.18	2.13	7.18	2.13	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
73	8.200	30.80	0.09	193.89	13.50	2.87	7.03	2.12	7.03	2.12	1.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
74	8.100	30.80	0.09	193.89	13.50	2.87	6.88	2.11	6.88	2.11	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
75	8.000	30.80	0.10	193.89	13.50	2.87	6.74	2.09	6.74	2.09	1.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
76	7.900	30.80	0.10	193.89	13.50	2.88	6.60	2.08	6.60	2.08	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
77	7.800	30.80	0.10	193.89	13.50	2.88	6.46	2.07	6.46	2.07	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
78	7.700	30.80	0.10	193.89	13.50	2.89	6.33	2.05	6.33	2.05	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
79	7.600	30.80	0.10	193.89	13.50	2.89	6.20	2.04	6.20	2.04	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
80	7.500	30.80	0.10	193.89	13.50	2.90	6.07	2.03	6.07	2.03	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
81	7.400	30.80	0.10	193.89	13.50	2.91	5.95	2.02	5.95	2.02	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
82	7.300	30.80	0.11	193.89	13.50	2.92	5.83	2.01	5.83	2.01	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
83	7.200	30.80	0.11	193.89	13.50	2.93	5.71	2.00	5.71	2.00	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
84	7.100	30.80	0.11	193.89	13.50	2.94	5.59	1.99	5.59	1.99	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
85	7.000	30.80	0.11	193.89	13.50	2.96	5.48	1.97	5.48	1.97	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
86	6.900	30.80	0.11	193.89	13.50	2.97	5.37	1.96	5.37	1.96	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
87	6.800	30.80	0.11	193.89	13.50	2.99	5.27	1.95	5.27	1.95	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
88	6.700	30.80	0.11	193.89	13.50	3.00	5.16	1.94	5.16	1.94	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
89	6.600	30.80	0.12	193.89	13.50	3.02	5.06	1.93	5.06	1.93	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
90	6.500	30.80	0.12	193.89	13.50	3.03	4.96	1.92	4.96	1.92	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
91	6.400	30.80	0.12	193.89	13.50	3.05	4.86	1.91	4.86	1.91	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
92	6.300	30.80	0.12	193.89	13.50	3.07	4.77	1.89	4.77	1.89	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 5 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
72	8.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
73	8.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
74	8.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
75	8.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
76	7.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
77	7.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
78	7.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
79	7.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
80	7.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
81	7.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
82	7.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
83	7.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
84	7.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
85	7.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
86	6.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
87	6.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
88	6.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
89	6.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
90	6.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
91	6.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
92	6.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 6 BLB FROM BLB05 TO RKM 2.5 WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

********** INPUTS FOR REACH 6 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
93	UPR RCH	1.17410	41.46273	30.80	0.12	193.89	13.50	3.07	4.77	1.89	4.77	1.89	1.53	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 6 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
93	6.30	6.20	1.17410	41.46273	8.7	0.021218	0.05	5.21	1.05	52.70	5533.5	5270.0	55.3	27221.	0.010932	0.508	0.021218	0.0000000
94	6.20	6.10	1.17410	41.46273	8.7	0.021218	0.05	5.26	1.05	52.70	5533.5	5270.0	55.3	27553.	0.011065	0.508	0.021218	0.0000000
95	6.10	6.00	1.17410	41.46273	8.7	0.021218	0.05	5.32	1.05	52.70	5533.5	5270.0	55.3	27885.	0.011198	0.508	0.021218	0.0000000
96	6.00	5.90	1.17410	41.46273	8.7	0.021218	0.05	5.37	1.05	52.70	5533.5	5270.0	55.3	28217.	0.011332	0.508	0.021218	0.0000000
97	5.90	5.80	1.17410	41.46273	8.7	0.021218	0.05	5.43	1.05	52.70	5533.5	5270.0	55.3	28549.	0.011465	0.508	0.021218	0.0000000
98	5.80	5.70	1.17410	41.46273	8.7	0.021218	0.05	5.48	1.05	52.70	5533.5	5270.0	55.3	28881.	0.011598	0.508	0.021218	0.0000000
99	5.70	5.60	1.17410	41.46273	8.7	0.021218	0.05	5.54	1.05	52.70	5533.5	5270.0	55.3	29213.	0.011732	0.508	0.021218	0.0000000
100	5.60	5.50	1.17410	41.46273	8.7	0.021218	0.05	5.59	1.05	52.70	5533.5	5270.0	55.3	29545.	0.011865	0.508	0.021218	0.0000000
101	5.50	5.40	1.17410	41.46273	8.7	0.021218	0.05	5.64	1.05	52.70	5533.5	5270.0	55.3	29877.	0.011998	0.508	0.021218	0.0000000
102	5.40	5.30	1.17410	41.46273	8.7	0.021218	0.05	5.70	1.05	52.70	5533.5	5270.0	55.3	30209.	0.012132	0.508	0.021218	0.0000000
103	5.30	5.20	1.17410	41.46273	8.7	0.021218	0.05	5.75	1.05	52.70	5533.5	5270.0	55.3	30541.	0.012265	0.508	0.021218	0.0000000
104	5.20	5.10	1.17410	41.46273	8.7	0.021218	0.05	5.81	1.05	52.70	5533.5	5270.0	55.3	30873.	0.012398	0.508	0.021218	0.0000000
105	5.10	5.00	1.17410	41.46273	8.7	0.021218	0.05	5.86	1.05	52.70	5533.5	5270.0	55.3	31205.	0.012532	0.508	0.021218	0.0000000
106	5.00	4.90	1.17410	41.46273	8.7	0.021218	0.05	5.92	1.05	52.70	5533.5	5270.0	55.3	31537.	0.012665	0.508	0.021218	0.0000000

107	4.90	4.80	1.17410	41.46273	8.7	0.021218	0.05	5.97	1.05	52.70	5533.5	5270.0	55.3	31869.	0.012798	0.508	0.021218	0.0000000
108	4.80	4.70	1.17410	41.46273	8.7	0.021218	0.05	6.03	1.05	52.70	5533.5	5270.0	55.3	32201.	0.012932	0.508	0.021218	0.0000000
109	4.70	4.60	1.17410	41.46273	8.7	0.021218	0.05	6.08	1.05	52.70	5533.5	5270.0	55.3	32533.	0.013065	0.508	0.021218	0.0000000
110	4.60	4.50	1.17410	41.46273	8.7	0.021218	0.05	6.14	1.05	52.70	5533.5	5270.0	55.3	32865.	0.013198	0.508	0.021218	0.0000000
111	4.50	4.40	1.17410	41.46273	8.7	0.021218	0.05	6.19	1.05	52.70	5533.5	5270.0	55.3	33197.	0.013332	0.508	0.021218	0.0000000
112	4.40	4.30	1.17410	41.46273	8.7	0.021218	0.05	6.24	1.05	52.70	5533.5	5270.0	55.3	33529.	0.013465	0.508	0.021218	0.0000000
113	4.30	4.20	1.17410	41.46273	8.7	0.021218	0.05	6.30	1.05	52.70	5533.5	5270.0	55.3	33861.	0.013598	0.508	0.021218	0.0000000
114	4.20	4.10	1.17410	41.46273	8.7	0.021218	0.05	6.35	1.05	52.70	5533.5	5270.0	55.3	34193.	0.013732	0.508	0.021218	0.0000000
115	4.10	4.00	1.17410	41.46273	8.7	0.021218	0.05	6.41	1.05	52.70	5533.5	5270.0	55.3	34525.	0.013865	0.508	0.021218	0.0000000
116	4.00	3.90	1.17410	41.46273	8.7	0.021218	0.05	6.46	1.05	52.70	5533.5	5270.0	55.3	34857.	0.013998	0.508	0.021218	0.0000000
117	3.90	3.80	1.17410	41.46273	8.7	0.021218	0.05	6.52	1.05	52.70	5533.5	5270.0	55.3	35189.	0.014132	0.508	0.021224	0.0000000
118	3.80	3.70	1.17410	41.46273	8.7	0.021218	0.05	6.57	1.05	52.70	5533.5	5270.0	55.3	35521.	0.014265	0.509	0.021244	0.0000000
119	3.70	3.60	1.17410	41.46273	8.7	0.021218	0.05	6.63	1.05	52.70	5533.5	5270.0	55.3	35853.	0.014398	0.510	0.021270	0.0000000
120	3.60	3.50	1.17410	41.46273	8.7	0.021218	0.05	6.68	1.05	52.70	5533.5	5270.0	55.3	36185.	0.014532	0.510	0.021302	0.0000000
121	3.50	3.40	1.17410	41.46273	8.7	0.021218	0.05	6.74	1.05	52.70	5533.5	5270.0	55.3	36517.	0.014665	0.511	0.021338	0.0000000
122	3.40	3.30	1.17410	41.46273	8.7	0.021218	0.05	6.79	1.05	52.70	5533.5	5270.0	55.3	36849.	0.014798	0.512	0.021378	0.0000000
123	3.30	3.20	1.17410	41.46273	8.7	0.021218	0.05	6.84	1.05	52.70	5533.5	5270.0	55.3	37181.	0.014932	0.513	0.021422	0.0000000
124	3.20	3.10	1.17410	41.46273	8.7	0.021218	0.05	6.90	1.05	52.70	5533.5	5270.0	55.3	37513.	0.015065	0.514	0.021469	0.0000000
125	3.10	3.00	1.17410	41.46273	8.7	0.021218	0.05	6.95	1.05	52.70	5533.5	5270.0	55.3	37845.	0.015198	0.515	0.021518	0.0000000
126	3.00	2.90	1.17410	41.46273	8.7	0.021218	0.05	7.01	1.05	52.70	5533.5	5270.0	55.3	38177.	0.015332	0.517	0.021571	0.0000000
127	2.90	2.80	1.17410	41.46273	8.7	0.021218	0.05	7.06	1.05	52.70	5533.5	5270.0	55.3	38509.	0.015465	0.518	0.021625	0.0000000
128	2.80	2.70	1.17410	41.46273	8.7	0.021218	0.05	7.12	1.05	52.70	5533.5	5270.0	55.3	38841.	0.015598	0.519	0.021682	0.0000000
129	2.70	2.60	1.17410	41.46273	8.7	0.021218	0.05	7.17	1.05	52.70	5533.5	5270.0	55.3	39173.	0.015732	0.521	0.021741	0.0000000
130	2.60	2.50	1.17410	41.46273	8.7	0.021218	0.05	7.23	1.05	52.70	5533.5	5270.0	55.3	39505.	0.015865	0.522	0.021802	0.0000000
TOT							2.07				210273.0	200260.0						0.0000000
AVG						0.021218			1.05	52.70			55.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 6 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
93	6.200	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	6.100	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6.000	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5.900	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	5.800	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	5.700	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	5.600	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	5.500	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	5.400	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	5.300	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	5.200	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	5.100	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	5.000	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	4.900	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	4.800	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.20	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	4.700	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	4.600	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	4.500	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	4.400	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	4.300	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	4.200	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	4.100	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	4.000	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	3.900	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

117	3.800	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	3.700	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	3.600	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	3.500	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	3.400	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	3.300	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	3.200	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	3.100	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	3.000	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	2.900	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	2.800	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	2.700	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	2.600	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	2.500	7.45	0.81	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.97	1.97	1.97	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.67	0.12	0.20	0.00	0.00	0.04	0.50	0.00	1.00			0.12	0.20	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 6 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
93	6.200	30.80	0.12	193.89	13.50	3.09	4.70	1.84	4.70	1.84	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
94	6.100	30.80	0.12	193.89	13.50	3.11	4.62	1.79	4.62	1.79	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
95	6.000	30.80	0.12	193.89	13.50	3.13	4.55	1.75	4.55	1.75	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
96	5.900	30.80	0.12	193.89	13.50	3.14	4.47	1.70	4.47	1.70	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
97	5.800	30.80	0.12	193.89	13.50	3.16	4.40	1.66	4.40	1.66	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
98	5.700	30.80	0.12	193.89	13.50	3.18	4.34	1.61	4.34	1.61	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
99	5.600	30.80	0.12	193.89	13.50	3.20	4.27	1.57	4.27	1.57	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
100	5.500	30.80	0.12	193.89	13.50	3.22	4.20	1.53	4.20	1.53	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
101	5.400	30.80	0.12	193.89	13.50	3.25	4.14	1.50	4.14	1.50	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
102	5.300	30.80	0.13	193.89	13.50	3.27	4.08	1.46	4.08	1.46	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
103	5.200	30.80	0.13	193.89	13.50	3.29	4.02	1.42	4.02	1.42	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
104	5.100	30.80	0.13	193.89	13.50	3.31	3.96	1.39	3.96	1.39	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
105	5.000	30.80	0.13	193.89	13.50	3.33	3.90	1.36	3.90	1.36	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
106	4.900	30.80	0.13	193.89	13.50	3.35	3.85	1.33	3.85	1.33	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
107	4.800	30.80	0.13	193.89	13.50	3.37	3.79	1.30	3.79	1.30	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
108	4.700	30.80	0.13	193.89	13.50	3.39	3.74	1.27	3.74	1.27	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
109	4.600	30.80	0.13	193.89	13.50	3.41	3.68	1.24	3.68	1.24	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
110	4.500	30.80	0.13	193.89	13.50	3.43	3.63	1.21	3.63	1.21	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
111	4.400	30.80	0.13	193.89	13.50	3.46	3.58	1.19	3.58	1.19	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
112	4.300	30.80	0.13	193.89	13.50	3.48	3.53	1.16	3.53	1.16	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
113	4.200	30.80	0.13	193.89	13.50	3.50	3.49	1.14	3.49	1.14	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
114	4.100	30.80	0.13	193.89	13.50	3.52	3.44	1.11	3.44	1.11	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
115	4.000	30.80	0.13	193.89	13.50	3.54	3.40	1.09	3.40	1.09	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
116	3.900	30.80	0.13	193.89	13.50	3.56	3.35	1.07	3.35	1.07	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
117	3.800	30.80	0.13	193.89	13.50	3.58	3.31	1.05	3.31	1.05	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
118	3.700	30.80	0.13	193.89	13.50	3.60	3.27	1.03	3.27	1.03	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
119	3.600	30.80	0.13	193.89	13.50	3.62	3.23	1.01	3.23	1.01	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
120	3.500	30.80	0.13	193.89	13.50	3.64	3.19	0.99	3.19	0.99	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
121	3.400	30.80	0.14	193.89	13.50	3.66	3.15	0.97	3.15	0.97	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
122	3.300	30.80	0.14	193.89	13.50	3.68	3.11	0.96	3.11	0.96	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
123	3.200	30.80	0.14	193.89	13.50	3.70	3.07	0.94	3.07	0.94	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
124	3.100	30.80	0.14	193.89	13.50	3.71	3.03	0.92	3.03	0.92	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
125	3.000	30.80	0.14	193.89	13.50	3.73	3.00	0.91	3.00	0.91	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
126	2.900	30.80	0.14	193.89	13.50	3.75	2.96	0.89	2.96	0.89	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
127	2.800	30.80	0.14	193.89	13.50	3.77	2.93	0.88	2.93	0.88	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
128	2.700	30.80	0.14	193.89	13.50	3.79	2.90	0.86	2.90	0.86	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
129	2.600	30.80	0.14	193.89	13.50	3.80	2.87	0.85	2.87	0.85	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
130	2.500	30.80	0.14	193.89	13.50	3.82	2.84	0.84	2.84	0.84	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 6 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
93	6.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
94	6.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0

95	6.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
96	5.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
97	5.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
98	5.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
99	5.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
100	5.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
101	5.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
102	5.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
103	5.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
104	5.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
105	5.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
106	4.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
107	4.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
108	4.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
109	4.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
110	4.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
111	4.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
112	4.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
113	4.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
114	4.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
115	4.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
116	3.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
117	3.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
118	3.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
119	3.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
120	3.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
121	3.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
122	3.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
123	3.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
124	3.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
125	3.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
126	2.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
127	2.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
128	2.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
129	2.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
130	2.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 7 BLB FROM RKM 2.5 TO ICWW CONF WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

********** INPUTS FOR REACH 7 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
131	UPR RCH	1.17410	41.46273	30.80	0.14	193.89	13.50	3.82	2.84	0.84	2.84	0.84	0.66	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 7 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
131	2.50	2.40	1.17410	41.46273	8.7	0.019437	0.06	7.29	1.49	40.54	6040.5	4054.0	60.4	39761.	0.014628	0.642	0.020017	0.0000000
132	2.40	2.30	1.17410	41.46273	8.7	0.019437	0.06	7.35	1.49	40.54	6040.5	4054.0	60.4	40016.	0.014722	0.643	0.020062	0.0000000
133	2.30	2.20	1.17410	41.46273	8.7	0.019437	0.06	7.41	1.49	40.54	6040.5	4054.0	60.4	40272.	0.014816	0.645	0.020108	0.0000000
134	2.20	2.10	1.17410	41.46273	8.7	0.019437	0.06	7.46	1.49	40.54	6040.5	4054.0	60.4	40527.	0.014909	0.646	0.020155	0.0000000
135	2.10	2.00	1.17410	41.46273	8.7	0.019437	0.06	7.52	1.49	40.54	6040.5	4054.0	60.4	40782.	0.015003	0.648	0.020203	0.0000000
136	2.00	1.90	1.17410	41.46273	8.7	0.019437	0.06	7.58	1.49	40.54	6040.5	4054.0	60.4	41038.	0.015097	0.649	0.020252	0.0000000
137	1.90	1.80	1.17410	41.46273	8.7	0.019437	0.06	7.64	1.49	40.54	6040.5	4054.0	60.4	41293.	0.015191	0.651	0.020301	0.0000000

138	1.80	1.70	1.17410	41.46273	8.7	0.019437	0.06	7.70	1.49	40.54	6040.5	4054.0	60.4	41549.	0.015285	0.653	0.020351	0.0000000
139	1.70	1.60	1.17410	41.46273	8.7	0.019437	0.06	7.76	1.49	40.54	6040.5	4054.0	60.4	41804.	0.015379	0.654	0.020402	0.0000000
140	1.60	1.50	1.17410	41.46273	8.7	0.019437	0.06	7.82	1.49	40.54	6040.5	4054.0	60.4	42059.	0.015473	0.656	0.020454	0.0000000
141	1.50	1.40	1.17410	41.46273	8.7	0.019437	0.06	7.88	1.49	40.54	6040.5	4054.0	60.4	42315.	0.015567	0.657	0.020507	0.0000000
142	1.40	1.30	1.17410	41.46273	8.7	0.019437	0.06	7.94	1.49	40.54	6040.5	4054.0	60.4	42570.	0.015661	0.659	0.020560	0.0000000
143	1.30	1.20	1.17410	41.46273	8.7	0.019437	0.06	8.00	1.49	40.54	6040.5	4054.0	60.4	42826.	0.015755	0.661	0.020614	0.0000000
144	1.20	1.10	1.17410	41.46273	8.7	0.019437	0.06	8.06	1.49	40.54	6040.5	4054.0	60.4	43081.	0.015849	0.663	0.020669	0.0000000
145	1.10	1.00	1.17410	41.46273	8.7	0.019437	0.06	8.12	1.49	40.54	6040.5	4054.0	60.4	43336.	0.015943	0.664	0.020724	0.0000000
146	1.00	0.90	1.17410	41.46273	8.7	0.019437	0.06	8.18	1.49	40.54	6040.5	4054.0	60.4	43592.	0.016037	0.666	0.020780	0.0000000
147	0.90	0.80	1.17410	41.46273	8.7	0.019437	0.06	8.24	1.49	40.54	6040.5	4054.0	60.4	43847.	0.016131	0.668	0.020836	0.0000000
148	0.80	0.70	1.17410	41.46273	8.7	0.019437	0.06	8.30	1.49	40.54	6040.5	4054.0	60.4	44103.	0.016225	0.670	0.020893	0.0000000
149	0.70	0.60	1.17410	41.46273	8.7	0.019437	0.06	8.36	1.49	40.54	6040.5	4054.0	60.4	44358.	0.016319	0.672	0.020950	0.0000000
150	0.60	0.50	1.17410	41.46273	8.7	0.019437	0.06	8.42	1.49	40.54	6040.5	4054.0	60.4	44614.	0.016413	0.674	0.021008	0.0000000
151	0.50	0.40	1.17410	41.46273	8.7	0.019437	0.06	8.48	1.49	40.54	6040.5	4054.0	60.4	44869.	0.016507	0.675	0.021067	0.0000000
152	0.40	0.30	1.17410	41.46273	8.7	0.019437	0.06	8.54	1.49	40.54	6040.5	4054.0	60.4	45124.	0.016601	0.677	0.021126	0.0000000
153	0.30	0.20	1.17410	41.46273	8.7	0.019437	0.06	8.60	1.49	40.54	6040.5	4054.0	60.4	45380.	0.016695	0.679	0.021186	0.0000000
154	0.20	0.10	1.17410	41.46273	8.7	0.019437	0.06	8.66	1.49	40.54	6040.5	4054.0	60.4	45635.	0.016789	0.681	0.021246	0.0000000
155	0.10	0.00	1.17410	41.46273	8.7	0.019437	0.06	8.72	1.49	40.54	6040.5	4054.0	60.4	45891.	0.016883	0.683	0.021306	0.0000000
TOT							1.49				151011.5	101350.0						0.0000000
AVG						0.019437			1.49	40.54			60.4					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 7 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
131	2.400	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	2.300	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	2.200	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	2.100	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	2.000	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	1.900	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	1.800	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	1.700	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	1.600	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	1.500	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	1.400	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	1.300	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	1.200	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	1.100	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	1.000	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	0.900	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.800	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	0.700	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	0.600	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.500	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	0.400	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.300	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.200	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	0.100	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.22	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.000	7.45	0.57	0.20	0.26	0.00	0.00	0.06	0.65	0.00	1.48	1.48	1.48	0.21	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.47	0.12	0.20	0.00	0.00	0.04	0.50	0.00	0.75			0.12	0.20	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 7 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
131	2.400	30.80	0.14	193.89	13.50	3.84	2.82	0.83	2.82	0.83	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
132	2.300	30.80	0.14	193.89	13.50	3.86	2.80	0.83	2.80	0.83	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

133	2.200	30.80	0.14	193.89	13.50	3.88	2.79	0.82	2.79	0.82	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
134	2.100	30.80	0.14	193.89	13.50	3.90	2.77	0.82	2.77	0.82	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
135	2.000	30.80	0.14	193.89	13.50	3.92	2.76	0.81	2.76	0.81	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
136	1.900	30.80	0.14	193.89	13.50	3.93	2.74	0.81	2.74	0.81	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
137	1.800	30.80	0.14	193.89	13.50	3.95	2.73	0.81	2.73	0.81	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
138	1.700	30.80	0.14	193.89	13.50	3.97	2.71	0.80	2.71	0.80	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
139	1.600	30.80	0.14	193.89	13.50	3.98	2.70	0.80	2.70	0.80	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
140	1.500	30.80	0.14	193.89	13.50	4.00	2.68	0.79	2.68	0.79	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
141	1.400	30.80	0.14	193.89	13.50	4.02	2.67	0.79	2.67	0.79	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
142	1.300	30.80	0.14	193.89	13.50	4.03	2.66	0.79	2.66	0.79	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
143	1.200	30.80	0.13	193.89	13.50	4.05	2.65	0.78	2.65	0.78	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
144	1.100	30.80	0.13	193.89	13.50	4.06	2.63	0.78	2.63	0.78	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
145	1.000	30.80	0.13	193.89	13.50	4.08	2.62	0.78	2.62	0.78	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
146	0.900	30.80	0.13	193.89	13.50	4.09	2.61	0.77	2.61	0.77	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
147	0.800	30.80	0.13	193.89	13.50	4.10	2.60	0.77	2.60	0.77	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
148	0.700	30.80	0.13	193.89	13.50	4.12	2.59	0.77	2.59	0.77	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
149	0.600	30.80	0.13	193.90	13.50	4.13	2.58	0.77	2.58	0.77	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
150	0.500	30.80	0.13	193.93	13.51	4.14	2.57	0.76	2.57	0.76	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
151	0.400	30.80	0.13	194.03	13.54	4.15	2.56	0.76	2.56	0.76	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
152	0.300	30.80	0.13	194.44	13.64	4.16	2.56	0.75	2.56	0.75	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
153	0.200	30.80	0.13	196.03	14.03	4.16	2.59	0.74	2.59	0.74	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
154	0.100	30.80	0.13	202.16	15.54	4.13	2.72	0.68	2.72	0.68	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
155	0.000	30.80	0.13	225.72	21.34	3.99	3.28	0.45	3.28	0.45	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 7 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
131	2.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
132	2.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
133	2.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
134	2.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
135	2.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
136	1.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
137	1.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
138	1.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
139	1.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
140	1.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
141	1.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
142	1.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
143	1.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
144	1.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
145	1.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
146	0.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
147	0.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
148	0.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
149	0.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
150	0.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
151	0.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
152	0.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
153	0.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
154	0.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
155	0.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

REACH SUMMARY REPORT: BAYOU L'EAU BLEU

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT RCH END m3/s	AVG VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT RCH END cfs	AVG VELO fps	AVG DEPTH ft	AVG WIDTH ft

1	BLB FROM CC TO BLB01	15.50	14.90	0.60	0.44	1.09340	0.01589	1.220	55.50	38.613	0.052	4.003	182.09
2	BLB01 TO BARGE CANAL	14.90	13.30	1.60	1.14	1.17410	0.01622	1.220	55.50	41.463	0.053	4.003	182.09
3	BARGE CANAL TO RKM 12.0	13.30	12.00	1.30	0.64	1.17410	0.02335	1.270	39.60	41.463	0.077	4.167	129.92
4	BLB FROM RKM 12.0 TO RKM 8.4	12.00	8.40	3.60	1.78	1.17410	0.02335	1.270	39.60	41.463	0.077	4.167	129.92
5	BLB FROM RKM 8.4 TO BLB05	8.40	6.30	2.10	1.15	1.17410	0.02122	1.050	52.70	41.463	0.070	3.445	172.90
6	BLB FROM BLB05 TO RKM 2.5	6.30	2.50	3.80	2.07	1.17410	0.02122	1.050	52.70	41.463	0.070	3.445	172.90
7	BLB FROM RKM 2.5 TO ICWW CONF	2.50	0.00	2.50	1.49	1.17410	0.01944	1.490	40.54	41.463	0.064	4.888	133.01

```
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

STREAM SUMMARY REPORT: BAYOU L'EAU BLEU

 TRAVEL TIME       =           8.72 DAYS
 MAXIMUM EFFLUENT  =           8.67 PERCENT

 FLOW              =   1.07230 TO    1.17410   m³/s
 DISPERSION        =   0.4299  TO    0.6831    m²/s
 VELOCITY          =   0.01584 TO    0.02335   m/s
 DEPTH             =   1.05    TO    1.49      m
 WIDTH             =  39.60    TO   55.50      m

 BOD DECAY         =    0.20   TO    0.20      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.99   TO    2.47      g/m²/d
 NH3 SED SOURCE    =    0.00   TO    0.00      g/m²/d
 PO4 SED SOURCE    =    0.00   TO    0.00      g/m²/d
 REAERATION        =    0.57   TO    0.81      per day
 BOD SETTLING      =    0.26   TO    0.52      per day
 NBOD DECAY        =    0.19   TO    0.23      per day
 NBOD SETTLING     =    0.13   TO    0.26      per day

 TEMPERATURE       =   30.80   TO   30.80      deg C
 DISSOLVED OXYGEN  =    2.67   TO    4.99      mg/L
```

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL SUMMER 60% NP HW REDUCTION RUN

INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD1	BOD2	NBOD			ORG-P	PO4-P	CHL A	PERIP	NCM	SALIN
	m^3/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d				
HEADWATER FLOW	1.07230	474.35	720.79	168.62	165.84	0.00	0.00	0.00	0.00	0.00		0.00	0.00
INCREMENTAL INFLOW	0.00000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
INCREMENTAL OUTFLOW	0.00000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
WASTELOADS	0.10180	20.23	65.70	16.11	18.66	0.00	0.00	0.00	0.00	0.00		0.00	0.00
WITHDRAWLS	0.00000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
EVAPORATION	0.00000												
FLOW THRU LOWER BNDRY	-1.17410	-404.69	-333.22	-45.86	-139.93	0.00	0.00	0.00	0.00	0.00		0.00	0.00
DISPERSION THRU LOWER BNDRY		-19.92	80.23	-32.23	82.76	0.00	0.00	0.00	0.00	0.00		0.00	0.00
DISPERSION THRU HDWTR BNDRY		6.79	15.93	-3.74	0.06	0.00	0.00	0.00	0.00	0.00		0.00	0.00
NON-POINT INPUT		0.00	1900.00	565.00	417.50	0.00	0.00	0.00	0.00			0.00	
NATURAL REAERATION		2528.89											
DAM REAERATION		0.00											
SOD BACKGROUND		-1169.06											
BOD1 DECAY		-1029.72	-1029.72										
BOD1 SETTLING		0.00	-1419.71										
ANAEROBIC BOD1 DECAY			0.00										
BOD2 DECAY		-99.46		-99.46									
BOD2 SETTLING		0.00		-568.44									
ANAEROBIC BOD2 DECAY				0.00									
BOD2 HYDROLYSIS			0.00	0.00									
NBOD DECAY		-307.25			0.00	0.00							
NBOD SETTLING					0.00	0.00							
NH3-N DECAY (NITRIFICATION)		0.00				0.00	0.00						
NH3-N BACKGROUND SEDIMENT SOURCE						0.00							
DENITRIFICATION			0.00				0.00						
ORG-P HYDROLYSIS								0.00	0.00				
ORG-P SETTLING								0.00	0.00				
PO4-P BACKGROUND SEDIMENT SOURCE									0.00				
PHYTOPLANKTON GROWTH/PHOTOSYNTHESIS		0.00				0.00	0.00		0.00	0.00			
PHYTOPLANKTON RESPIRATION/EXCRETION		0.00				0.00			0.00	0.00			
PHYTOPLANKTON SETTLING		0.00				0.00			0.00	0.00			
PHYTOPLANKTON DEATH			0.00	0.00	0.00			0.00		0.00			
PERIPHYTON GROWTH/PHOTOSYNTHESIS		0.00				0.00	0.00		0.00		0.00		
PERIPHYTON RESPIRATION/EXCRETION		0.00				0.00			0.00		0.00		
PERIPHYTON DEATH			0.00	0.00	0.00			0.00			0.00		
NCM DECAY		0.00										0.00	
NCM SETTLING		0.00										0.00	
TOTAL INPUTS	1.17410	3030.26	2782.65	749.73	684.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL OUTPUTS	-1.17410	-3030.10	-2782.65	-749.73	-139.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET CONVERGENCE ERROR	-0.00000	0.16	0.00	0.00	544.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

.....EXECUTION COMPLETED

Appendix D2 – Summer Projection Justifications

Bayou L'Eau Bleu 120303 Summer Justification			
DATA TYPE 3 - PROGRAM CONSTANTS			
CONSTANT NAME	VALUE	UNITS	DATA SOURCE
DISPERSION EQUATION	3		Equation used to account for all modes of transport.
TIDE HEIGHT	0.06		Calculated from BLB07 continuous monitor
PERIOD OF TIDAL RISE	13		Calculated from BLB07 continuous monitor
K2 MAXIMUM	25	1/day at 20 deg C	EPA Policy in the absence of a measured value.
HYDRAULIC CALCULATION METHOD	2		The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditions. This method allows the model to predict a more accurate depth and width during low flow conditions.
SETTLING RATE UNITS	2		By making the settling rate a velocity the rate becomes dependent upon the depth.
WIND VELOCITY	0.68		Calculated from Houma Weather Station.
ALGAE OXYGEN PRODUCTION	0		Standard practice for steady state calibration to a wide variation in DO.
KL MINIMUM	0.7	m/day	The minimum KL of 2.3 ft/day converted to 0.70 m/day.
OCEAN EXCHANGE RATIO	1		Default value
EFFECTIVE BOD1	0		Set to 0 to override calculation of BOD1
EFFECTIVE BOD2	0		Set to 0 to override calculation of BOD2

Bayou L'Eau Bleu 120303 Summer Justification						
DATA TYPE 8 - REACH IDENTIFICATION DATA						
Reach	ID	Name	Upstream River Kilometer	Downstream River Kilometer	Element Length, meters	Data Source
1	LB	BLB FROM CC TO BLB01	15.50	14.90	100.0000	ARC MAP Calc.
2	LB	BLB01 TO BARGE CANAL	14.90	13.30	100.0000	ARC MAP Calc.
3	LB	BARGE CANAL TO RKM 12.0	13.30	12.00	100.0000	ARC MAP Calc.
4	LB	BLB FROM RKM 12.0 TO RKM 8.4	12.00	8.40	100.0000	ARC MAP Calc.
5	LB	BLB FROM RKM 8.4 TO BLB05	8.40	6.30	100.0000	ARC MAP Calc.
6	LB	BLB FROM BLB05 TO RKM 2.5	6.30	2.50	100.0000	ARC MAP Calc.
7	LB	BLB FROM RKM 2.5 TO ICWW	2.50	0.00	100.0000	ARC MAP Calc.

Bayou L'Eau Bleu 120303 Summer Justification										
		Data Type 9 - Advective Hydraulic Coefficients								
Reach	Name	Width Coeff. "a"	Width Exp. "b"	Width Const. "c"	Data Source	Depth Coeff. "d"	Depth Exp. "e"	Depth Const. "f"	Data Source	Manning's "n"
1	BLB FROM CC TO BLB01	0	0	55.500	BLB-02	0	0	1.220	BLB-02	0.03
2	BLB01 TO BARGE CANAL	0	0	55.500	BLB-02	0	0	1.220	BLB-02	0.03
3	BARGE CANAL TO RKM 12.0	0	0	39.600	BLB-04	0	0	1.270	BLB-04	0.03
4	BLB FROM RKM 12.0 TO RKM 8.4	0	0	39.600	BLB-04	0	0	1.270	BLB-04	0.03
5	BLB FROM RKM 8.4 TO BLB05	0	0	52.700	BLB-05	0	0	1.050	BLB-05	0.03
6	BLB FROM BLB05 TO RKM 2.5	0	0	52.700	BLB-05	0	0	1.050	BLB-05	0.03
7	BLB FROM RKM 2.5 TO ICWW	0	0	40.540	BLB-07	0	0	1.490	BLB-07	0.03

Bayou L'Eau Bleu 120303 Summer Justification							
DATA TYPE 10 - DISPERSIVE HYDRAULIC COEFFICIENTS							
Reach	**Tidal Range**	**Data Source**	**a**	**b**	**c**	**d**	**Data Source**
1	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
2	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
3	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
4	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
5	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
6	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
7	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion

Bayou L'Eau Bleu 120303 Summer Justification								
DATA TYPE 11-INITIAL CONDITIONS								
Reach	Name	Temp, deg C	DO, mg/l	Data Source	Sal, ppt	Data Source	Chlorophyll a	Data Source
1	BLB FROM CC TO BLB01	30.80	2.30	90th percentile temperature for WQN 2843 and DO set to standard for subsegment 120303	0.09	INSITU AVG (CC-01 + BLB-01)	10.00	BPJ
2	BLB01 TO BARGE CANAL	30.80	2.30	90th percentile temperature for WQN 2843and DO set to standard for subsegment 120303	0.09	INSITU BLB-01	10.00	BPJ
3	BARGE CANAL TO RKM 12.0	30.80	2.30	90th percentile temperature for WQN 2843and DO set to standard for subsegment 120303	0.09	INSITU AVG (BLB-01 + BLB-04)	10.00	BPJ
4	BLB FROM RKM 12.0 TO RKM 8.4	30.80	2.30	90th percentile temperature for WQN 2843 and DO set to standard for subsegment 120303	0.09	INSITU BLB-04	10.00	BPJ
5	BLB FROM RKM 8.4 TO BLB05	30.80	2.30	90th percentile temperature for WQN 2843 and DO set to standard for subsegment 120303	0.09	INSITU BLB-05	10.00	BPJ
6	BLB FROM BLB05 TO RKM 2.5	30.80	2.30	90th percentile temperature for WQN 2843 and DO set to standard for subsegment 120303	0.12	INSITU AVG (BLB-05 + BLB-07)	10.00	BPJ
7	BLB FROM RKM 2.5 TO ICWW	30.80	2.30	90th percentile temperature for WQN 2843and DO set to standard for subsegment 120303	0.14	INSITU BLB-07	10.00	BPJ

Bayou L'Eau Bleu 120303 Summer Justification						
		DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS				
REACH	**NAME**	**K2 OPT**	**Data Source**	**a**	**BKGRND SOD, gmO2/m2/day at 20 deg C**	**Data Source**
1	BLB FROM CC TO BLB01	11	Texas Equation		1.250	60% Reduction
2	BLB01 TO BARGE CANAL	11	Texas Equation		0.750	60% Reduction
3	BARGE CANAL TO RKM 12.0	11	Texas Equation		0.500	60% Reduction
4	BLB FROM RKM 12.0 TO RKM 8.4	11	Texas Equation		0.500	60% Reduction
5	BLB FROM RKM 8.4 TO BLB05	11	Texas Equation		1.000	60% Reduction
6	BLB FROM BLB05 TO RKM 2.5	11	Texas Equation		1.000	60% Reduction
6	BLB FROM RKM 2.5 TO ICWW	11	Texas Equation		0.750	60% Reduction

Bayou L'Eau Bleu 120303 Summer Justification

DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS

Aerobic BOD1 Dec Rate (1/day)	Data Source	BOD1 SETT RATE (1/day)	Data Source	Aerobic BOD2 Dec Rate (1/day)	Data Source	BOD2 SETT RATE (1/day)	Data Source
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.4	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.5	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.5	Calibration

Bayou L'Eau Bleu 120303 Summer Justification					
DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS					
Reach	**Name**	**NBOD decay rate, 1/day**	**Data Source**	**NBOD settling rate, 1/day**	**Data Source**
1	BLB FROM CC TO BLB01	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
2	BLB01 TO BARGE CANAL	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
3	BARGE CANAL TO RKM 12.0	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
4	BLB FROM RKM 12.0 TO RKM 8.4	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
5	BLB FROM RKM 8.4 TO BLB05	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
6	BLB FROM BLB05 TO RKM 2.5	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.20	Calibration
7	BLB FROM RKM 2.5 TO ICWW	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.20	Calibration

Bayou L'Eau Bleu 120303 Summer Justification						
DATA TYPE 19 - NONPOINT SOURCES						
Reach	**Reach Name**	**Length of Reach, km**	**UCBOD1, kg/day**	**UCBOD2, kg/day**	**NBOD, kg/day**	**Data Source**
1	BLB FROM CC TO BLB01	0.60	0.00	75.00	25.00	60% Reduction
2	BLB01 TO BARGE CANAL	1.60	650.00	125.00	150.00	60% Reduction
3	BARGE CANAL TO RKM 12.0	1.30	550.00	125.00	175.00	60% Reduction
4	BLB FROM RKM 12.0 TO RKM 8.4	3.60	350.00	40.00	5.00	60% Reduction
5	BLB FROM RKM 8.4 TO BLB05	2.10	50.00	50.00	15.00	60% Reduction
6	BLB FROM BLB05 TO RKM 2.5	3.80	150.00	75.00	10.00	60% Reduction
7	BLB FROM RKM 2.5 TO ICWW	2.50	150.00	75.00	37.50	60% Reduction

Bayou L'Eau Bleu 120303 Summer Justification										
DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES										
Headwater Name	Element No.	Logical Unit Number	Headwater Flow, cms	Data Source	Temp, deg C	Salinity	Conductivity	Chlorides	Headwater Exchange	Data Source
Headwater 1	1	1	1.0723	1/3 Average Tidal Flow	30.8	0.09	193.0	13.40	1.00	Temp set to 90th percentile temp for WQN 2843, Salinity, Conductivity, and chlorides - set to Average CC-01 and CC-02. Bayou L'Eau Bleu has two dispersive boundaries-Company Canal and ICWW

Bayou L'Eau Bleu 120303 Summer Justification					
DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN					
Headwater Name	Dissolved Oxygen, mg/L	UCBOD1, mg/l	UCBOD2, mg/l	NBOD, mg/l	Data Source
Headwater 1	5.12	7.78	1.82	1.79	DO measurement is the average CC-01 and CC-02 calibration, others are a 60% reduction in loading from calibration.

Bayou L'Eau Bleu 120303 Summer Justification					
DATA TYPES 22 - HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES					
Headwater Name	**Chlorophyll a, ug/L**	**Date Source**			
Headwater 1	10	BPJ			

Bayou L'Eau Bleu 120303 Summer Justification								
	DATA TYPES 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES							
Wasteload / Withdrawal Name	**EL #**	**Flow, cms**	**Data Source**	**Temperature, deg C**	**Salinity**	**Conductivity**	**Chlorides**	**Data Source**
Tom Foret Canal	6	0.0211	Assumed flow for Tom Foret Canal to be the average flow for the Lockport STP for the months of June 2004 and July 2004.	30.8	0.13	277.0	18.6	Temperature set to 90th percentile temperature for WQN 2843, all others set to TFC-01
Barge Canal	22	0.0807	The flow was assumed to 1/3 average flow for Barge Canal summer projections.	30.8	0.08	184.0	13.5	Temperature set to 90th percentile temperature for WQN 2843, all others set to CC-02

Bayou L'Eau Bleu 120303 Summer Justification

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

Wasteload / Withdrawal Name	EL #	DO, mg/l	UCBOD1, mg/l	UCBOD2, mg/l	UNBOD, mg/l	Data Source
Tom Foret Canal	6	2.30	3.72	1.84	2.32	DO set to standard for subsegment 120303, other parameters - 60% reduction from calibration
Barge Canal	22	2.30	8.45	1.83	2.07	DO set to standard for subsegment 120303, other parameters - 60% reduction from calibration

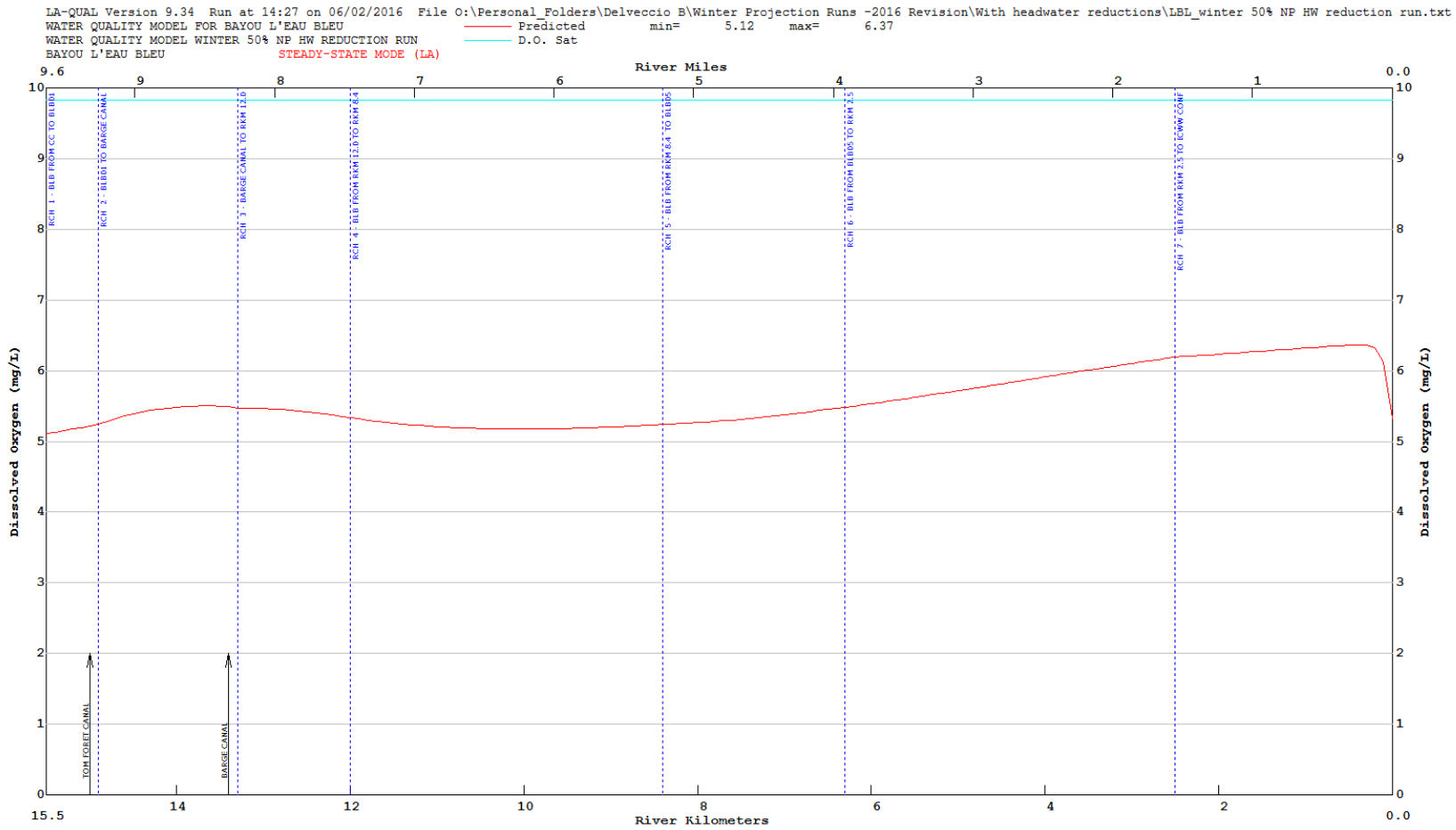
Bayou L'Eau Bleu 120303 Summer Justification

DATA TYPES 26 - WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES

Wasteload / Withdrawal Name	EL #	Chl a, ug/L	Data Source	Phosphorus	Coliform	Nonconservatives	Data Source
Tom Foret Canal	6						
Barge Canal	22	10	BPJ				

Bayou L'Eau Bleu 120303 Summer Justification			
DATA TYPES 27 - LOWER BOUNDARY CONDITIONS			
Parameter	**Value**	**Units**	**Data Source**
TEMPERATURE	30.80	^{O}C	90th percentile temp for WQN 2843
SALINITY	0.13	ppt	ICWW-01 Insitu
CHLORIDES	32.5	ppm	ICWW-01 Lab Data
CONDUCTIVITY	271.00	umhos/cm	ICWW-01 Insitu
DISSOLVED OXYGEN	3.71	mg/L	ICWW-01
CBOD1	4.410	mg/L	ICWW-01 Lab Data
CBOD2	0.000	mg/L	ICWW-01 Lab Data
CHLOROPHYLL A	10.0	ug/L	Best Professional Judgment
NBOD	2.540	mg/L	ICWW-01 Lab Data

Appendix D3 – Winter Output Graphs and Input, Overlay, and Output Files


LA-QUAL Version 9.34 Run at 14:27 on 06/02/2016 File O:\Personal_Folders\Delveccio B\Winter Projection Runs -2016 Revision\With headwater reductions\LBL_winter 50% NP HW reduction run.txt
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
Predicted min= 5.12 max= 6.37
D.O. Sat
River Miles
River Kilometers
Dissolved Oxygen (mg/L)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO ICWW CONF
TOM FORET CANAL
BARGE CANAL

BAYOU L'EAU BLEU 120303 WINTER PROJECTION INPUT DATA SET

```
CNTROL01     WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
CNTROL02     WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN
CNTROL12 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CONDUCTIVITY               IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CHLORIDES                  IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06 YES BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT08  NO PHOSPHORUS
MODOPT09  NO CHLOROPHYLL A
MODOPT10  NO MACROPHYTES
MODOPT11  NO COLIFORM
MODOPT12  NO NONCONSERVATIVE MATERIAL
ENDATA02
PROGRAM  DISPERSION EQUATION                =     3.0
PROGRAM  TIDE HEIGHT                        =     0.063
PROGRAM  PERIOD OF TIDAL RISE               =     13.0
PROGRAM  K2 MAXIMUM                         =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD       =     2.
PROGRAM  SETTLING RATE UNITS                =     2.
PROGRAM  WIND VELOCITY                      =     0.68
PROGRAM  ALGAE OXYGEN PROD                  =     0.00
PROGRAM  KL MINIMUM                         =     0.70
PROGRAM  OCEAN EXCHANGE RATIO               =     1.0
PROGRAM  EFF BOD1                          =      0.0
PROGRAM  EFF BOD2                           =     0.0
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ********************************----------**********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID  1    LB BLB FROM CC TO BLB01                15.50      14.90    0.100
REACH ID  2    LB BLB01 TO BARGE CANAL                14.90      13.30    0.100
REACH ID  3    LB BARGE CANAL TO RKM 12.0             13.30      12.00    0.100
REACH ID  4    LB BLB FROM RKM 12.0 TO RKM 8.4        12.00       8.40    0.100
REACH ID  5    LB BLB FROM RKM 8.4  TO BLB05           8.40       6.30    0.100
REACH ID  6    LB BLB FROM BLB05 TO RKM 2.5            6.30       2.50    0.100
REACH ID  7    LB BLB FROM RKM 2.5 TO ICWW CONF        2.50       0.00    0.100
```

```
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
!Reach 1 - BLB-02
HYDR-1      1   0.0    0.0    55.50  0.0    0.00    1.22          0.030
!REACH 2 - BLB-02
HYDR-1      2   0.0    0.0    55.50  0.0    0.00    1.22          0.030
!REACH 3 - BLB-04
HYDR-1      3   0.0    0.0    39.60  0.0    0.00    1.27          0.030
!REACH 4 - BLB-04
HYDR-1      4   0.0    0.0    39.60  0.0    0.00    1.27          0.030
!REACH 5 - BLB-05
HYDR-1      5   0.0    0.0    52.70  0.0    0.00    1.05          0.030
!REACH 6 - BLB-05
HYDR-1      6   0.0    0.0    52.70  0.0    0.00    1.05          0.030
!REACH 7 - BLB-07
HYDR-1      7   0.0    0.0    40.54  0.0    0.00    1.49          0.030
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
HYDR-2      1  1.00   23.000   0.833    0.0       1.0
HYDR-2      2  1.00   23.000   0.833    0.0       1.0
HYDR-2      3  1.00   23.000   0.833    0.0       1.0
HYDR-2      4  1.00   23.000   0.833    0.0       1.0
HYDR-2      5  1.00   23.000   0.833    0.0       1.0
HYDR-2      6  1.00   23.000   0.833    0.0       1.0
HYDR-2      7  1.00   23.000   0.833    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO                            CHL A   MACROPHYTES
!Normally when the chlorophyll a values are high and there is a DO swing in the continuous
!monitors of more than 2 mg/l, modeling to (DO min + 1) is the norm.  For this survey, only
!2 continuous monitors were working for Bayou L'Eau Bleu mainstem.  The (DO min + 1) values
!for these monitors were very close to the insitu readings taken at the sample times.  Therefore,
!to be consistent with the sites that did not have continuous monitors, the insitu readings
!taken at the sample times will be used for all sites.
!REACH 1 INSITU AVG (CC-01 + BLB-01) FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-01
```

```
INITIAL     1      16.2    0.09   5.00                           10.0   0.00
!REACH 2 INSITU BLB-01 FOR ALL PARAMETERS
INITIAL     2      16.2    0.09   5.00                           10.0   0.00
!REACH 3 INSITU AVG (BLB-01 + BLB-04) FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-01
INITIAL     3      16.2    0.09   5.00                           10.0   0.00
!REACH 4 INSITU BLB-04 FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-01
INITIAL     4      16.2    0.09   5.00                           10.0   0.00
!REACH 5 INSITU BLB-05 FOR ALL PARAMETERS
INITIAL     5      16.2    0.09   5.00                           10.0   0.00
!REACH 6 INSITU AVG (BLB-05 + BLB-07) FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-05
INITIAL     6      16.2    0.12   5.00                           10.0   0.00
!REACH 7 INSITU BLB-07 FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-05
INITIAL     7      16.2    0.14   5.00                           10.0   0.00
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----****** ******-------*******-------*******-------*******-------***
!Texas equation was determined to be most suitable for this model.
!Settling rates were determined by calibration.
!Decay rate is the average decay rate of BLB-01, BLB-04, BLB-05, BLB-07
!               REA                          BOD 1  BOD 1 BOD1SET       BOD 2    BOD 2 BOD2SET
!          R#   EQ                       SOD  DECAY  SETT   TO SOD       DECAY    SETT   TO SOD
COEF-1      1   11.0                     1.56  0.120   0.40                0.037   0.20
COEF-1      2   11.0                     0.94  0.120   0.20                0.037   0.20
COEF-1      3   11.0                     0.63  0.120   0.20                0.037   0.20
COEF-1      4   11.0                     0.63  0.120   0.20                0.037   0.20
COEF-1      5   11.0                     1.25  0.120   0.20                0.037   0.20
COEF-1      6   11.0                     1.25  0.120   0.20                0.037   0.50
COEF-1      7   11.0                     0.94  0.120   0.20                0.037   0.50
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
!Decay rate is the average decay rate of BLB-01, BLB-04, BLB-05, BLB-07
!Settling rates were determined by calibration.
COEF-2      1    0.118   0.10
COEF-2      2    0.118   0.10
COEF-2      3    0.118   0.10
COEF-2      4    0.118   0.10
COEF-2      5    0.118   0.10
COEF-2      6    0.118   0.20
COEF-2      7    0.118   0.20
```

```
ENDATA13
ENDATA14
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#      DO    CBOD       NBOD
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********
!          R#             CHL A
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1        0.0    31.25      0.0     00.0      0.0    93.75
NONPOINT    2     812.50   187.50      0.0     00.0      0.0   156.25
NONPOINT    3     687.50   218.75      0.0     00.0      0.0   156.25
NONPOINT    4     437.50     6.25      0.0     00.0      0.0    50.00
NONPOINT    5      62.50    18.75      0.0     00.0      0.0    62.50
NONPOINT    6     187.50    12.50      0.0     00.0      0.0    93.75
NONPOINT    7     187.50    46.88      0.0     00.0      0.0    93.75
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   COND    CHLORIDES   HDWTR XCHANGE
! The headwater flow was assumed to be 1/3 of the average tidal flow.  Temperature
! is 90th percentile temperature for WQN 2843. All other measurements are the average CC-01 and CC-02.
! Moved Headwater exchange from Data Type 3 to Data Type 20 (4/14/16)
HDWTR-1     1  BAYOU L'EAU BLEU          1.0723   16.2   0.09   193.0      13.4      1.0
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD                      BOD 2
! DO measurement is the average CC-01 and CC-02 from calibration.
```

```
! All other measurements are a percent reduction in loading from calibration.
HDWTR-2     1     5.12     9.73     2.24                      2.27
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------*********---------*********
!          E#             CHL A
! Chlorophyll a value is best professional judgement.
HDWTR-3     1              10.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------*********---------*********---------*********
!          E#     NAME               FLOW      TEMP   SALINITY   COND  CHLORIDES
! Assumed Lockport average flow for Tom Foret and 1/3 average flow
! for Barge Canal winter projections.
! Temperature is the 90th percentile temperature for WQN 2843.
! All other measurements are from site TFC-01.
WSTLD-1     6  TOM FORET CANAL       0.02110   16.2     0.13     277.0    18.6
! All other measurements are from CC-02.
WSTLD-1    22  BARGE CANAL           0.08070   16.2     0.08     184.0    13.5
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------*********-----*********---------*****---------*********
!          E#       DO    BOD 1         NBOD                            BOD 2
! 50% reduction for BOD1, BOD2, and NBOD.
! DO is standard for this subsegment.
WSTLD-2     6      5.00   4.64          2.90                            2.29
WSTLD-2    22      5.00  10.56          2.58                            2.29
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------*********---------*********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
! No measurement taken.
WSTLD-3     6
! All measurements are best professional judgement.
WSTLD-3    22              10.0
ENDATA26
! Temperature is 90th percentile temperature for WQN 2843.
! DO is ICWW-01.
! All measurements are from ICWW-01 except Chlorophyll a.
! No measurement taken on ICWW so best professional judgement used for Chlorophyll a.
LOWER BC TEMPERATURE                        =  16.20
```

```
LOWER BC SALINITY                          =   0.13
LOWER BC CONSERVATIVE MATERIAL I           = 271.00
LOWER BC CONSERVATIVE MATERIAL II          =  32.50
LOWER BC DISSOLVED OXYGEN                  =   3.71
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND    =   4.41
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND    =   0.00
LOWER BC CHLOROPHYLL A                     =   10.0
LOWER BC NBOD                              =   2.54
ENDATA27
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  5  6  7
ENDATA30
ENDATA31
```

BAYOU L'EAU BLEU 120303 WINTER PROJECTION OUTPUT DATA SET

```
LA-QUAL Version 9.34
Louisiana Department of Environmental Quality

Input file is O:\Personal_Folders\Delveccio B\Winter Projection Runs -2016 Revision\With headwater reductions\LBL_winter 50% NP HW reduction run.txt
Running in steady-state mode using LA defaults
Output produced at 14:27 on 06/02/2016

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

CARD TYPE       CONTROL TITLES

TITLE01         WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
TITLE02         WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN
CNTROL12  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

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

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

```
CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

PROGRAM         DISPERSION EQUATION                =         3.00000 (values entered as a function of D,Q,Vmean)
PROGRAM         TIDE HEIGHT                        =         0.06300 meters
PROGRAM         PERIOD OF TIDAL RISE               =        13.00000 hours
PROGRAM         K2 MAXIMUM                         =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD       =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS                =         2.00000 (values entered as per day)
PROGRAM         WIND VELOCITY                      =         0.68000 meters/sec
PROGRAM         ALGAE OXYGEN PROD                  =         0.00000 mg O/ug chl a/day
PROGRAM         KL MINIMUM                         =         0.70000 meters/day
PROGRAM         OCEAN EXCHANGE RATIO               =         1.00000
PROGRAM         EFF BOD1                           =     0.0                   0.00000 mg/L BOD1 per ug/L chl a
PROGRAM         EFF BOD2                           =         0.00000 mg/L BOD2 per ug/L chl a
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

$$$ DATA TYPE 6 (PHYTOPLANKTON CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

$$$ DATA TYPE 7 (PERIPHYTON CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                                      BEGIN          END     ELEM    REACH     BEGIN          END     ELEM    REACH     ELEMS   BEGIN    END
CARD TYPE  REACH  ID  NAME                            REACH         REACH   LENGTH   LENGTH     REACH         REACH   LENGTH   LENGTH   PER RCH   ELEM    ELEM
                                                         km            km       km       km        mi            mi       mi       mi                NUM     NUM

REACH ID      1   LB  BLB FROM CC TO BLB01            15.50  to     14.90   0.1000     0.60      9.63  to      9.26   0.0622     0.37         6       1       6
REACH ID      2   LB  BLB01 TO BARGE CANAL            14.90  to     13.30   0.1000     1.60      9.26  to      8.27   0.0622     0.99        16       7      22
REACH ID      3   LB  BARGE CANAL TO RKM 12.0         13.30  to     12.00   0.1000     1.30      8.27  to      7.46   0.0622     0.81        13      23      35
REACH ID      4   LB  BLB FROM RKM 12.0 TO RKM 8.4    12.00  to      8.40   0.1000     3.60      7.46  to      5.22   0.0622     2.24        36      36      71
REACH ID      5   LB  BLB FROM RKM 8.4  TO BLB05       8.40  to      6.30   0.1000     2.10      5.22  to      3.92   0.0622     1.31        21      72      92
REACH ID      6   LB  BLB FROM BLB05 TO RKM 2.5        6.30  to      2.50   0.1000     3.80      3.92  to      1.55   0.0622     2.36        38      93     130
REACH ID      7   LB  BLB FROM RKM 2.5 TO ICWW CONF    2.50  to      0.00   0.1000     2.50      1.55  to      0.00   0.0622     1.55        25     131     155
ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID       WIDTH       WIDTH       WIDTH       DEPTH       DEPTH       DEPTH      SLOPE     MANNINGS      EVAP
                            "a"         "b"         "c"         "d"         "e"         "f"                    "n"
                         coeff.(m)   exp.of Q   const.(m)    coeff.(m)   exp.of Q   const.(m)                            cm/d

HYDR-1        1   LB       0.000       0.000      55.500       0.000       0.000       1.220     0.00000      0.030    0.00000
HYDR-1        2   LB       0.000       0.000      55.500       0.000       0.000       1.220     0.00000      0.030    0.00000
HYDR-1        3   LB       0.000       0.000      39.600       0.000       0.000       1.270     0.00000      0.030    0.00000
HYDR-1        4   LB       0.000       0.000      39.600       0.000       0.000       1.270     0.00000      0.030    0.00000
HYDR-1        5   LB       0.000       0.000      52.700       0.000       0.000       1.050     0.00000      0.030    0.00000
HYDR-1        6   LB       0.000       0.000      52.700       0.000       0.000       1.050     0.00000      0.030    0.00000
HYDR-1        7   LB       0.000       0.000      40.540       0.000       0.000       1.490     0.00000      0.030    0.00000
ENDATA09
```

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

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                        RANGE        "a"            "b"            "c"            "d"
                      frac(0-1)  coeff.(m²/s)     exp.of D       exp.of Q      exp.of Vmean

HYDR-2        1   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        2   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        3   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        4   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        5   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        6   LB      1.00       23.000          0.833          0.000          1.000
HYDR-2        7   LB      1.00       23.000          0.833          0.000          1.000
ENDATA10

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

CARD TYPE      REACH  ID     TEMP    SALIN       DO    NH3-N    NO3-N    PO4-P    CHL A    PERIP     BOD1     BOD2    ORG-N    ORG-P     COLI      NCM     CM-1     CM-2
                             deg C     ppt     mg/L     mg/L     mg/L     mg/L     µg/L     g/m²     mg/L     mg/L     mg/L     mg/L  #/100mL              MG/L     MG/L

INITIAL           1   LB    16.20     0.09     5.00     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL           2   LB    16.20     0.09     5.00     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL           3   LB    16.20     0.09     5.00     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL           4   LB    16.20     0.09     5.00     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL           5   LB    16.20     0.09     5.00     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL           6   LB    16.20     0.12     5.00     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
INITIAL           7   LB    16.20     0.14     5.00     0.00     0.00     0.00    10.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                                    AEROB                SETTLD     ANAER     AEROB                          ANAER      BOD2
CARD     RCH  RCH  K2                    K2        K2        K2    BKGRND      BOD       BOD       SOD       BOD      BOD2      BOD2                 BOD2   HYDR TO
TYPE     NUM   ID  OPT                   "a"       "b"       "c"       SOD    DECAY      SETT     AVAIL     DECAY     DECAY      SETT               DECAY      BOD1
                                                                     g/m²/d   per day   per day      frac   per day   per day   per day             per day   per day

COEF-1     1   LB  11 TEXAS           0.000     0.000     0.000     1.560     0.120     0.400     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     2   LB  11 TEXAS           0.000     0.000     0.000     0.940     0.120     0.200     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     3   LB  11 TEXAS           0.000     0.000     0.000     0.630     0.120     0.200     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     4   LB  11 TEXAS           0.000     0.000     0.000     0.630     0.120     0.200     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     5   LB  11 TEXAS           0.000     0.000     0.000     1.250     0.120     0.200     0.000     0.000     0.037     0.200               0.000     0.000
COEF-1     6   LB  11 TEXAS           0.000     0.000     0.000     1.250     0.120     0.200     0.000     0.000     0.037     0.500               0.000     0.000
COEF-1     7   LB  11 TEXAS           0.000     0.000     0.000     0.940     0.120     0.200     0.000     0.000     0.037     0.500               0.000     0.000
ENDATA12

$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$
                                                SETTLD              BKGRND    BKGRND                                   SETTLD
CARD TYPE      REACH  ID        NBOD      NBOD      ORGN       NH3       NH3       PO4     DENIT      ORGP      ORGP      ORGP
                                DECA      SETT     AVAIL      DECA      SRCE      SRCE      RATE      DECA      SETT     AVAIL
                            per day   per day      frac   per day    g/m²/d   g/m²/d   per day   per day   per day      frac

COEF-2           1   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           2   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           3   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           4   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           5   LB       0.118     0.100     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           6   LB       0.118     0.200     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
COEF-2           7   LB       0.118     0.200     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA13

$$$ DATA TYPE 14 (ALGAE PHYTOPLANKTON AND PERIPHYTON COEFFICIENTS) $$$
                                                                   MAX                                 MAX
CARD TYPE      REACH  ID      SECCHI    CHL A:     PHYTO     PHYTO     PHYTO     PHYTO     PERIP     PERIP     PERIP      BANK
                              DEPTH     ALGAE      SETT     DEATH      GROW      RESP     DEATH      GROW      RESP   SHADING
                                  m      frac   per day   per day   per day   per day   per day   per day   per day      frac

ENDATA14
```

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

CARD TYPE      REACH  ID    COLIFORM       NCM       NCM
                            DIE-OFF     DECAY      SETT
                            per day   per day   per day

ENDATA15

$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE      REACH  ID      OUTFLOW      OUTFLOW      INFLOW      INFLOW      TEMP     SALIN      CM-1      CM-2  OUT/DIST  OUT/DIST   IN/DIST   IN/DIST
                                  m³/s          cfs        m³/s         cfs     deg C       ppt      MG/L      MG/L    cms/km    cfs/mi    cms/km    cfs/mi

ENDATA16

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

CARD TYPE      REACH  ID          DO      BOD1      NBOD                          BOD2
                                mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, PHYTOPLANKTON, COLIFORM, AND NONCONSERVATIVES) $$$
                                          PHYTO
 CARD TYPE      REACH  ID        PO4     CHL A      COLI       NCM      ORGP
                                mg/L      µg/L   #/100mL                mg/L

ENDATA18

$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$

CARD TYPE      REACH  ID        BOD1      NBOD       COLI       NCM        DO      BOD2     ORG-P       NH3       NO3       PO4
                                kg/d      kg/d     #/day                kg/d      kg/d      kg/d      kg/d      kg/d      kg/d

NONPOINT         1   LB        0.00     31.25      0.00      0.00      0.00     93.75      0.00      0.00      0.00      0.00
NONPOINT         2   LB      812.50    187.50      0.00      0.00      0.00    156.25      0.00      0.00      0.00      0.00
NONPOINT         3   LB      687.50    218.75      0.00      0.00      0.00    156.25      0.00      0.00      0.00      0.00
NONPOINT         4   LB      437.50      6.25      0.00      0.00      0.00     50.00      0.00      0.00      0.00      0.00
NONPOINT         5   LB       62.50     18.75      0.00      0.00      0.00     62.50      0.00      0.00      0.00      0.00
NONPOINT         6   LB      187.50     12.50      0.00      0.00      0.00     93.75      0.00      0.00      0.00      0.00
NONPOINT         7   LB      187.50     46.88      0.00      0.00      0.00     93.75      0.00      0.00      0.00      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
                                                                                                                   HDW DISP
CARD TYPE     ELEMENT   NAME                  UNIT      FLOW       FLOW    TEMP    SALIN      CM-1      CM-2     EXCHG
                                                         m³/s        cfs   deg C      ppt      MG/L      MG/L      frac

HDWTR-1          1     BAYOU L'EAU BLEU        0   1.07230   37.86771   16.20     0.09   193.000    13.400     1.000
ENDATA20

$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE     ELEMENT   NAME                          DO      BOD1     NBOD                          BOD2
                                                    mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2          1     BAYOU L'EAU BLEU            5.12      9.73      2.24      0.00      0.00      2.27
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, PHYTOPLANKTON, COLIFORM, AND NONCONSERVATIVES) $$$
                                                                PHYTO
CARD TYPE     ELEMENT   NAME                        PO4-P     CHL A      COLI       NCM     ORG-P
                                                     mg/L      µg/L   #/100mL                mg/L

HDWTR-3          1     BAYOU L'EAU BLEU             0.00     10.00      0.00      0.00      0.00
ENDATA22
```

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE  ELEMENT    RKILO  NAME                      FLOW       FLOW     FLOW    TEMP    SALIN      CM-1      CM-2
                                                       m³/s        cfs      MGD   deg C      ppt      MG/L      MG/L

WSTLD-1        6      15.00  TOM FORET CANAL        0.02110    0.74514    0.482   16.20     0.13   277.000    18.600
WSTLD-1       22      13.40  BARGE CANAL            0.08070    2.84988    1.842   16.20     0.08   184.000    13.500
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE     ELEMENT   NAME                          DO      BOD1     % BOD     NBOD                 %                 BOD2
                                                    mg/L      mg/L      RMVL     mg/L      mg/L    NITRIF      mg/L      mg/L

WSTLD-2           6     TOM FORET CANAL             5.00      4.64      0.00     2.90      0.00      0.00      0.00      2.29
WSTLD-2          22     BARGE CANAL                 5.00     10.56      0.00     2.58      0.00      0.00      0.00      2.29
ENDATA25

$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, PHYTOPLANTON, COLIFORM, AND NONCONSERVATIVES) $$$
                                                                PHYTO
CARD TYPE     ELEMENT   NAME                        PO4-P     CHL A      COLI       NCM     ORG-P
                                                    mg/L      µg/L   #/100mL                mg/L

WSTLD-3           6     TOM FORET CANAL             0.00      0.00      0.00      0.00      0.00
WSTLD-3          22     BARGE CANAL                 0.00     10.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                     CONCENTRATION

LOWER BC     TEMPERATURE                        =     16.200     deg C
LOWER BC     SALINITY                           =      0.130     ppt
LOWER BC     CONSERVATIVE MATERIAL I            =    271.000     MG/L
LOWER BC     CONSERVATIVE MATERIAL II           =     32.500     MG/L
LOWER BC     DISSOLVED OXYGEN                   =      3.710     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND     =      4.410     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND     =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                      =     10.000     µg/L
LOWER BC     NBOD                               =      2.540     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$

CARD TYPE     ELEMENT   DAM NAME              DAM REAERATION EQUATION       "a"       "b"       "H"

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$

CARD TYPE       PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

ENDATA29

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

NUMBER OF PLOTS =  1
NUMBER OF REACHES IN PLOT 1 =   7
```

```
PLOT RCH  1  2  3  4  5  6  7
ENDATA30


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

ENDATA31


CONCENTRATION ADJUSTMENTS RESULTING FROM USING EFFECTIVE CONCENTRATIONS

  ELEM  HEADWATER NAME           CHL A  EBOD1   BOD1  EBOD2   BOD2  EORGN   ORGN  EORGP   ORGP

     1  BAYOU L'EAU BLEU          10.0   9.73   9.73   2.27   2.27   2.24   2.24   0.00   0.00
   LBC                             10.0   4.41   4.41   0.00   0.00   2.54   2.54   0.00   0.00


     .....NO FATAL ERRORS DETECTED IN INPUT DATA
     .....MODEL CONTAINS   1 HEADWATERS,   7 REACHES,    0 DAMS,  155 ELEMENTS, AND   2 WASTELOADS
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN    2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11


INTERMEDIATE REPORT
 Dissolved Oxygen                                                WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
     mg/L                                                        WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN
```

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	5.14	5.16	5.18	5.20	5.22	5.24				
LB	2	7	5.29	5.33	5.36	5.39	5.42	5.44	5.46	5.48	5.49	5.50
LB	2	17	5.50	5.51	5.51	5.50	5.50	5.47				
LB	3	23	5.47	5.47	5.47	5.46	5.46	5.45	5.44	5.42	5.41	5.39
LB	3	33	5.38	5.36	5.34							
LB	4	36	5.32	5.31	5.29	5.28	5.26	5.25	5.24	5.23	5.22	5.21
LB	4	46	5.21	5.20	5.20	5.19	5.19	5.18	5.18	5.18	5.18	5.18
LB	4	56	5.18	5.18	5.18	5.18	5.19	5.19	5.19	5.20	5.20	5.21
LB	4	66	5.21	5.22	5.23	5.23	5.24	5.25				
LB	5	72	5.25	5.26	5.26	5.27	5.28	5.29	5.30	5.31	5.32	5.33
LB	5	82	5.34	5.35	5.37	5.38	5.40	5.41	5.42	5.44	5.45	5.47
LB	5	92	5.49									
LB	6	93	5.50	5.52	5.54	5.55	5.57	5.59	5.61	5.63	5.65	5.66
LB	6	103	5.68	5.70	5.72	5.74	5.76	5.78	5.80	5.82	5.84	5.86
LB	6	113	5.88	5.90	5.91	5.93	5.95	5.97	5.99	6.01	6.03	6.05
LB	6	123	6.07	6.09	6.11	6.13	6.14	6.16	6.18	6.20		
LB	7	131	6.20	6.21	6.22	6.23	6.24	6.24	6.25	6.26	6.27	6.28
LB	7	141	6.29	6.29	6.30	6.31	6.32	6.33	6.34	6.35	6.36	6.37
LB	7	151	6.37	6.37	6.33	6.13	5.32					

```
INTERMEDIATE REPORT
 Effective BOD1                                                  WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
     mg/L                                                        WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN
```

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	9.47	9.16	8.86	8.57	8.31	8.12				
LB	2	7	8.48	8.84	9.18	9.53	9.86	10.19	10.51	10.83	11.14	11.44
LB	2	17	11.74	12.03	12.32	12.59	12.84	12.99				
LB	3	23	13.33	13.65	13.98	14.30	14.61	14.92	15.23	15.53	15.83	16.12
LB	3	33	16.41	16.67	16.87							
LB	4	36	16.75	16.64	16.53	16.42	16.31	16.20	16.09	15.99	15.89	15.79

LB	4	46	15.69	15.59	15.49	15.39	15.30	15.20	15.11	15.02	14.93	14.84
LB	4	56	14.76	14.67	14.58	14.50	14.42	14.34	14.26	14.18	14.10	14.02
LB	4	66	13.95	13.87	13.80	13.72	13.65	13.56				
LB	5	72	13.38	13.21	13.04	12.87	12.70	12.54	12.38	12.22	12.06	11.91
LB	5	82	11.75	11.60	11.46	11.31	11.17	11.03	10.89	10.75	10.62	10.49
LB	5	92	10.36									
LB	6	93	10.25	10.14	10.04	9.93	9.83	9.73	9.63	9.53	9.43	9.34
LB	6	103	9.24	9.15	9.06	8.97	8.88	8.79	8.71	8.62	8.54	8.46
LB	6	113	8.38	8.30	8.22	8.14	8.07	7.99	7.92	7.85	7.78	7.71
LB	6	123	7.64	7.57	7.50	7.43	7.37	7.31	7.24	7.18		
LB	7	131	7.13	7.09	7.04	7.00	6.96	6.91	6.87	6.83	6.79	6.75
LB	7	141	6.71	6.67	6.63	6.60	6.56	6.52	6.49	6.45	6.42	6.38
LB	7	151	6.35	6.31	6.24	6.07	5.49					

INTERMEDIATE REPORT
Biochemical Oxygen Demand
mg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	9.47	9.16	8.86	8.57	8.31	8.12				
LB	2	7	8.48	8.84	9.18	9.53	9.86	10.19	10.51	10.83	11.14	11.44
LB	2	17	11.74	12.03	12.32	12.59	12.84	12.99				
LB	3	23	13.33	13.65	13.98	14.30	14.61	14.92	15.23	15.53	15.83	16.12
LB	3	33	16.41	16.67	16.87							
LB	4	36	16.75	16.64	16.53	16.42	16.31	16.20	16.09	15.99	15.89	15.79
LB	4	46	15.69	15.59	15.49	15.39	15.30	15.20	15.11	15.02	14.93	14.84
LB	4	56	14.76	14.67	14.58	14.50	14.42	14.34	14.26	14.18	14.10	14.02
LB	4	66	13.95	13.87	13.80	13.72	13.65	13.56				
LB	5	72	13.38	13.21	13.04	12.87	12.70	12.54	12.38	12.22	12.06	11.91
LB	5	82	11.75	11.60	11.46	11.31	11.17	11.03	10.89	10.75	10.62	10.49
LB	5	92	10.36									
LB	6	93	10.25	10.14	10.04	9.93	9.83	9.73	9.63	9.53	9.43	9.34
LB	6	103	9.24	9.15	9.06	8.97	8.88	8.79	8.71	8.62	8.54	8.46
LB	6	113	8.38	8.30	8.22	8.14	8.07	7.99	7.92	7.85	7.78	7.71
LB	6	123	7.64	7.57	7.50	7.43	7.37	7.31	7.24	7.18		
LB	7	131	7.13	7.09	7.04	7.00	6.96	6.91	6.87	6.83	6.79	6.75
LB	7	141	6.71	6.67	6.63	6.60	6.56	6.52	6.49	6.45	6.42	6.38
LB	7	151	6.35	6.31	6.24	6.07	5.49					

INTERMEDIATE REPORT
Biochemical Oxygen Demand #2
mg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	2.38	2.51	2.63	2.76	2.88	2.97				
LB	2	7	3.03	3.09	3.14	3.20	3.25	3.30	3.35	3.40	3.45	3.50
LB	2	17	3.55	3.60	3.65	3.69	3.72	3.69				
LB	3	23	3.77	3.85	3.93	4.00	4.08	4.15	4.23	4.30	4.37	4.44
LB	3	33	4.51	4.58	4.62							
LB	4	36	4.59	4.55	4.52	4.48	4.45	4.42	4.39	4.35	4.32	4.29
LB	4	46	4.26	4.23	4.20	4.17	4.14	4.11	4.08	4.05	4.02	3.99
LB	4	56	3.96	3.93	3.91	3.88	3.85	3.83	3.80	3.77	3.75	3.72
LB	4	66	3.70	3.67	3.65	3.62	3.60	3.58				
LB	5	72	3.56	3.55	3.54	3.53	3.52	3.51	3.49	3.48	3.47	3.46
LB	5	82	3.45	3.44	3.43	3.42	3.41	3.40	3.39	3.38	3.37	3.35
LB	5	92	3.33									
LB	6	93	3.27	3.21	3.15	3.09	3.04	2.98	2.93	2.88	2.83	2.78
LB	6	103	2.73	2.68	2.64	2.59	2.55	2.51	2.47	2.43	2.39	2.35
LB	6	113	2.31	2.28	2.24	2.21	2.17	2.14	2.11	2.08	2.05	2.02
LB	6	123	1.99	1.96	1.94	1.91	1.88	1.86	1.84	1.81		
LB	7	131	1.80	1.78	1.77	1.75	1.74	1.73	1.71	1.70	1.69	1.68
LB	7	141	1.67	1.66	1.65	1.63	1.62	1.61	1.61	1.60	1.59	1.58

LB	7	151	1.57	1.55	1.51	1.39	0.92

INTERMEDIATE REPORT
Effective BOD2
mg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	2.38	2.51	2.63	2.76	2.88	2.97				
LB	2	7	3.03	3.09	3.14	3.20	3.25	3.30	3.35	3.40	3.45	3.50
LB	2	17	3.55	3.60	3.65	3.69	3.72	3.69				
LB	3	23	3.77	3.85	3.93	4.00	4.08	4.15	4.23	4.30	4.37	4.44
LB	3	33	4.51	4.58	4.62							
LB	4	36	4.59	4.55	4.52	4.48	4.45	4.42	4.39	4.35	4.32	4.29
LB	4	46	4.26	4.23	4.20	4.17	4.14	4.11	4.08	4.05	4.02	3.99
LB	4	56	3.96	3.93	3.91	3.88	3.85	3.83	3.80	3.77	3.75	3.72
LB	4	66	3.70	3.67	3.65	3.62	3.60	3.58				
LB	5	72	3.56	3.55	3.54	3.53	3.52	3.51	3.49	3.48	3.47	3.46
LB	5	82	3.45	3.44	3.43	3.42	3.41	3.40	3.39	3.38	3.37	3.35
LB	5	92	3.33									
LB	6	93	3.27	3.21	3.15	3.09	3.04	2.98	2.93	2.88	2.83	2.78
LB	6	103	2.73	2.68	2.64	2.59	2.55	2.51	2.47	2.43	2.39	2.35
LB	6	113	2.31	2.28	2.24	2.21	2.17	2.14	2.11	2.08	2.05	2.02
LB	6	123	1.99	1.96	1.94	1.91	1.88	1.86	1.84	1.81		
LB	7	131	1.80	1.78	1.77	1.75	1.74	1.73	1.71	1.70	1.69	1.68
LB	7	141	1.67	1.66	1.65	1.63	1.62	1.61	1.61	1.60	1.59	1.58
LB	7	151	1.57	1.55	1.51	1.39	0.92					

INTERMEDIATE REPORT
Nitrogenous Oxygen Demand
mg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	2.26	2.29	2.31	2.34	2.37	2.42				
LB	2	7	2.51	2.60	2.69	2.78	2.86	2.95	3.03	3.12	3.20	3.28
LB	2	17	3.36	3.44	3.52	3.59	3.66	3.69				
LB	3	23	3.82	3.95	4.08	4.21	4.33	4.46	4.58	4.71	4.83	4.95
LB	3	33	5.07	5.18	5.27							
LB	4	36	5.22	5.18	5.13	5.09	5.05	5.00	4.96	4.92	4.88	4.84
LB	4	46	4.80	4.76	4.72	4.68	4.64	4.60	4.56	4.52	4.48	4.45
LB	4	56	4.41	4.37	4.33	4.30	4.26	4.23	4.19	4.16	4.12	4.09
LB	4	66	4.05	4.02	3.98	3.95	3.92	3.89				
LB	5	72	3.86	3.83	3.80	3.77	3.75	3.72	3.69	3.66	3.64	3.61
LB	5	82	3.59	3.56	3.53	3.51	3.48	3.46	3.43	3.41	3.38	3.36
LB	5	92	3.33									
LB	6	93	3.29	3.24	3.20	3.15	3.11	3.07	3.03	2.99	2.95	2.91
LB	6	103	2.87	2.83	2.79	2.75	2.72	2.68	2.65	2.61	2.58	2.54
LB	6	113	2.51	2.47	2.44	2.41	2.38	2.35	2.31	2.28	2.25	2.22
LB	6	123	2.20	2.17	2.14	2.11	2.08	2.06	2.03	2.00		
LB	7	131	1.99	1.98	1.96	1.95	1.94	1.92	1.91	1.90	1.89	1.88
LB	7	141	1.86	1.85	1.84	1.83	1.82	1.81	1.80	1.79	1.78	1.77
LB	7	151	1.76	1.75	1.76	1.81	2.06					

INTERMEDIATE REPORT
Chlorophyll a
µg/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

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

LB	1	1	10.00	10.00	10.00	10.00	10.00	10.00				
LB	2	7	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	2	17	10.00	10.00	10.00	10.00	10.00	10.00				
LB	3	23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	3	33	10.00	10.00	10.00							
LB	4	36	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	4	46	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	4	56	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	4	66	10.00	10.00	10.00	10.00	10.00	10.00				
LB	5	72	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	5	82	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	5	92	10.00									
LB	6	93	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	6	103	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	6	113	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	6	123	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00		
LB	7	131	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	7	141	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
LB	7	151	10.00	10.00	10.00	10.00	10.00					

INTERMEDIATE REPORT
Temperature
deg C

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	16.20	16.20	16.20	16.20	16.20	16.20				
LB	2	7	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20
LB	2	17	16.20	16.20	16.20	16.20	16.20	16.20				
LB	3	23	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20
LB	3	33	16.20	16.20	16.20							
LB	4	36	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20
LB	4	46	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20
LB	4	56	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20
LB	4	66	16.20	16.20	16.20	16.20	16.20	16.20				
LB	5	72	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20
LB	5	82	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20
LB	5	92	16.20									
LB	6	93	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20
LB	6	103	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20
LB	6	113	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20
LB	6	123	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20		
LB	7	131	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20
LB	7	141	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20	16.20
LB	7	151	16.20	16.20	16.20	16.20	16.20					

INTERMEDIATE REPORT
Salinity
ppt

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.09	0.09	0.09	0.09	0.09	0.09				
LB	2	7	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	2	17	0.09	0.09	0.09	0.09	0.09	0.09				
LB	3	23	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	3	33	0.09	0.09	0.09							
LB	4	36	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	4	46	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	4	56	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
LB	4	66	0.09	0.09	0.09	0.09	0.09	0.09				
LB	5	72	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10
LB	5	82	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12

LB	5	92	0.12									
LB	6	93	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13
LB	6	103	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
LB	6	113	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14
LB	6	123	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14		
LB	7	131	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
LB	7	141	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
LB	7	151	0.13	0.13	0.13	0.13	0.13					

INTERMEDIATE REPORT
CONDUCTIVITY
MG/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	193.00	193.00	193.02	193.07	193.35	194.62				
LB	2	7	194.62	194.62	194.62	194.62	194.62	194.62	194.62	194.62	194.62	194.62
LB	2	17	194.62	194.62	194.61	194.59	194.46	193.89				
LB	3	23	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	3	33	193.89	193.89	193.89							
LB	4	36	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	4	46	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	4	56	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	4	66	193.89	193.89	193.89	193.89	193.89	193.89				
LB	5	72	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	5	82	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	5	92	193.89									
LB	6	93	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	6	103	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	6	113	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	6	123	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89		
LB	7	131	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89
LB	7	141	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.89	193.90	193.93
LB	7	151	194.03	194.44	196.03	202.16	225.72					

INTERMEDIATE REPORT
CHLORIDES
MG/L

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	13.40	13.40	13.40	13.40	13.42	13.50				
LB	2	7	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	2	17	13.50	13.50	13.50	13.50	13.50	13.50				
LB	3	23	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	3	33	13.50	13.50	13.50							
LB	4	36	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	4	46	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	4	56	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	4	66	13.50	13.50	13.50	13.50	13.50	13.50				
LB	5	72	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	5	82	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	5	92	13.50									
LB	6	93	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	6	103	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	6	113	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	6	123	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50		
LB	7	131	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
LB	7	141	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.51
LB	7	151	13.54	13.64	14.03	15.54	21.34					

INTERMEDIATE REPORT
River Distance

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU

km

WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	15.	15.	15.	15.	15.	15.				
LB	2	7	15.	15.	15.	14.	14.	14.	14.	14.	14.	14.
LB	2	17	14.	14.	14.	13.	13.	13.				
LB	3	23	13.	13.	13.	13.	13.	13.	13.	12.	12.	12.
LB	3	33	12.	12.	12.							
LB	4	36	12.	12.	12.	12.	11.	11.	11.	11.	11.	11.
LB	4	46	11.	11.	11.	11.	10.	10.	10.	10.	10.	10.
LB	4	56	10.	10.	10.	10.	9.	9.	9.	9.	9.	9.
LB	4	66	9.	9.	9.	9.	8.	8.				
LB	5	72	8.	8.	8.	8.	8.	8.	8.	8.	7.	7.
LB	5	82	7.	7.	7.	7.	7.	7.	7.	7.	6.	6.
LB	5	92	6.									
LB	6	93	6.	6.	6.	6.	6.	6.	6.	6.	5.	5.
LB	6	103	5.	5.	5.	5.	5.	5.	5.	5.	4.	4.
LB	6	113	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.
LB	6	123	3.	3.	3.	3.	3.	3.	3.	3.		
LB	7	131	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
LB	7	141	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	7	151	0.	0.	0.	0.	0.					

INTERMEDIATE REPORT
Flow
m^3/s

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	1.1	1.1	1.1	1.1	1.1	1.1				
LB	2	7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
LB	2	17	1.1	1.1	1.1	1.1	1.1	1.2				
LB	3	23	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	3	33	1.2	1.2	1.2							
LB	4	36	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	4	46	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	4	56	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	4	66	1.2	1.2	1.2	1.2	1.2	1.2				
LB	5	72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	5	82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	5	92	1.2									
LB	6	93	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	6	103	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	6	113	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	6	123	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2		
LB	7	131	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	7	141	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	7	151	1.2	1.2	1.2	1.2	1.2					

INTERMEDIATE REPORT
Dispersion
m^2/s

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.4	0.4	0.4	0.4	0.4	0.4				
LB	2	7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
LB	2	17	0.4	0.4	0.4	0.4	0.4	0.5				
LB	3	23	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
LB	3	33	0.7	0.7	0.7							
LB	4	36	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
LB	4	46	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

LB	4	56	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
LB	4	66	0.7	0.7	0.7	0.7	0.7	0.7				
LB	5	72	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
LB	5	82	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
LB	5	92	0.5									
LB	6	93	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
LB	6	103	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
LB	6	113	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
LB	6	123	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
LB	7	131	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7
LB	7	141	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
LB	7	151	0.7	0.7	0.7	0.7	0.7					

INTERMEDIATE REPORT
Depth
m

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	1.2	1.2	1.2	1.2	1.2	1.2				
LB	2	7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
LB	2	17	1.2	1.2	1.2	1.2	1.2	1.2				
LB	3	23	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	3	33	1.3	1.3	1.3							
LB	4	36	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	4	46	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	4	56	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LB	4	66	1.3	1.3	1.3	1.3	1.3	1.3				
LB	5	72	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	5	82	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	5	92	1.0									
LB	6	93	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	6	103	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	6	113	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LB	6	123	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LB	7	131	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
LB	7	141	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
LB	7	151	1.5	1.5	1.5	1.5	1.5					

INTERMEDIATE REPORT
Width
m

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	55.5	55.5	55.5	55.5	55.5	55.5				
LB	2	7	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
LB	2	17	55.5	55.5	55.5	55.5	55.5	55.5				
LB	3	23	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
LB	3	33	39.6	39.6	39.6							
LB	4	36	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
LB	4	46	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
LB	4	56	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
LB	4	66	39.6	39.6	39.6	39.6	39.6	39.6				
LB	5	72	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	5	82	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	5	92	52.7									
LB	6	93	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	6	103	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	6	113	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
LB	6	123	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7		
LB	7	131	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
LB	7	141	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
LB	7	151	40.5	40.5	40.5	40.5	40.5					

INTERMEDIATE REPORT
Advective Velocity
m/s

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.0	0.0	0.0	0.0	0.0	0.0				
LB	2	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	2	17	0.0	0.0	0.0	0.0	0.0	0.0				
LB	3	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	3	33	0.0	0.0	0.0							
LB	4	36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	4	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	4	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	4	66	0.0	0.0	0.0	0.0	0.0	0.0				
LB	5	72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	5	82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	5	92	0.0									
LB	6	93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	6	103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	6	113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	6	123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
LB	7	131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	7	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	7	151	0.0	0.0	0.0	0.0	0.0					

INTERMEDIATE REPORT
Mean Velocity
m/s

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.0	0.0	0.0	0.0	0.0	0.0				
LB	2	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	2	17	0.0	0.0	0.0	0.0	0.0	0.0				
LB	3	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	3	33	0.0	0.0	0.0							
LB	4	36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	4	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	4	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	4	66	0.0	0.0	0.0	0.0	0.0	0.0				
LB	5	72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	5	82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	5	92	0.0									
LB	6	93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	6	103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	6	113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	6	123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
LB	7	131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	7	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LB	7	151	0.0	0.0	0.0	0.0	0.0					

INTERMEDIATE REPORT
Cross-Sectional Area
m^2

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	67.7	67.7	67.7	67.7	67.7	67.7				
LB	2	7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
LB	2	17	67.7	67.7	67.7	67.7	67.7	67.7				

LB	3	23	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
LB	3	33	50.3	50.3	50.3							
LB	4	36	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
LB	4	46	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
LB	4	56	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
LB	4	66	50.3	50.3	50.3	50.3	50.3	50.3				
LB	5	72	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	5	82	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	5	92	55.3									
LB	6	93	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	6	103	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	6	113	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
LB	6	123	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3		
LB	7	131	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
LB	7	141	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
LB	7	151	60.4	60.4	60.4	60.4	60.4					

INTERMEDIATE REPORT
Reaeration Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.531	0.531	0.531	0.531	0.531	0.531				
LB	2	7	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531	0.531
LB	2	17	0.531	0.531	0.531	0.531	0.531	0.531				
LB	3	23	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515
LB	3	33	0.515	0.515	0.515							
LB	4	36	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515
LB	4	46	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515
LB	4	56	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515
LB	4	66	0.515	0.515	0.515	0.515	0.515	0.515				
LB	5	72	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
LB	5	82	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
LB	5	92	0.617									
LB	6	93	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
LB	6	103	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
LB	6	113	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
LB	6	123	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617		
LB	7	131	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435
LB	7	141	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435
LB	7	151	0.435	0.435	0.435	0.435	0.436					

INTERMEDIATE REPORT
BOD1 Decay Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.	0.	0.	0.	0.	0.				
LB	2	7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	2	17	0.	0.	0.	0.	0.	0.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	82	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	92	0.									
LB	6	93	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	103	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	113	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

LB	6	123	0.	0.	0.	0.	0.	0.	0.	0.		
LB	7	131	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	141	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	151	0.	0.	0.	0.	0.					

INTERMEDIATE REPORT
BOD1 Settling Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.	0.	0.	0.	0.	0.				
LB	2	7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	2	17	0.	0.	0.	0.	0.	0.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	82	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	92	0.									
LB	6	93	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	103	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	113	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	123	0.	0.	0.	0.	0.	0.	0.	0.		
LB	7	131	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	141	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	151	0.	0.	0.	0.	0.					

INTERMEDIATE REPORT
BOD2 Decay Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	0.	0.	0.	0.	0.	0.				
LB	2	7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	2	17	0.	0.	0.	0.	0.	0.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	82	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	92	0.									
LB	6	93	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	103	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	113	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	123	0.	0.	0.	0.	0.	0.	0.	0.		
LB	7	131	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	141	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	151	0.	0.	0.	0.	0.					

INTERMEDIATE REPORT
BOD2 Settling Rate
per day

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

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

LB	1	1	0.	0.	0.	0.	0.	0.				
LB	2	7	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	2	17	0.	0.	0.	0.	0.	0.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	82	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	5	92	0.									
LB	6	93	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	103	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	113	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	6	123	0.	0.	0.	0.	0.	0.	0.	0.		
LB	7	131	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	141	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	7	151	0.	0.	0.	0.	0.					

INTERMEDIATE REPORT
Sediment Oxygen Demand
g/m²/d

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
LB	1	1	1.	1.	1.	1.	1.	1.				
LB	2	7	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	2	17	1.	1.	1.	1.	1.	1.				
LB	3	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	3	33	0.	0.	0.							
LB	4	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	46	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	56	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LB	4	66	0.	0.	0.	0.	0.	0.				
LB	5	72	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	5	82	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	5	92	1.									
LB	6	93	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	6	103	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	6	113	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	6	123	1.	1.	1.	1.	1.	1.	1.	1.		
LB	7	131	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	7	141	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
LB	7	151	1.	1.	1.	1.	1.					

CAPSULE SUMMARY FOR BAYOU L'EAU BLEU

IOR	REACH	DIST km	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	DO mg/L	BOD1 mg/L	BOD2 mg/L	NBOD mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	ORG-P mg/L	PO4-P mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
		HDWTR	1.072	37.868	16.20	0.1	5.12	9.73	2.27	2.24	0.00	0.00	2.24	0.00	0.00	10.0													
1	LB 1	15.400	1.072	37.868	16.20	0.1	5.14	9.47	2.38	2.26	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.015837	0.015837	9.823	0.531	0.10	0.37	0.03	0.18	0.00	1.23
2	LB 1	15.300	1.072	37.868	16.20	0.1	5.16	9.16	2.51	2.29	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.015837	0.015837	9.823	0.531	0.10	0.37	0.03	0.18	0.00	1.23
3	LB 1	15.200	1.072	37.868	16.20	0.1	5.18	8.86	2.63	2.31	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.015837	0.015837	9.823	0.531	0.10	0.37	0.03	0.18	0.00	1.23
4	LB 1	15.100	1.072	37.868	16.20	0.1	5.20	8.57	2.76	2.34	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.015837	0.015837	9.823	0.531	0.10	0.37	0.03	0.18	0.00	1.23
5	LB 1	15.000	1.072	37.868	16.20	0.1	5.22	8.31	2.88	2.37	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.015837	0.015837	9.823	0.531	0.10	0.37	0.03	0.18	0.00	1.23
WASTELOAD # 006 (TOM FORET CANAL) ENTERS HERE																													
6	LB 1	14.900	1.093	38.613	16.20	0.1	5.24	8.12	2.97	2.42	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.37	0.03	0.18	0.00	1.23
7	LB 2	14.800	1.093	38.613	16.20	0.1	5.29	8.48	3.03	2.51	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
8	LB 2	14.700	1.093	38.613	16.20	0.1	5.33	8.84	3.09	2.60	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
9	LB 2	14.600	1.093	38.613	16.20	0.1	5.36	9.18	3.14	2.69	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
10	LB 2	14.500	1.093	38.613	16.20	0.1	5.39	9.53	3.20	2.78	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
11	LB 2	14.400	1.093	38.613	16.20	0.1	5.42	9.86	3.25	2.86	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
12	LB 2	14.300	1.093	38.613	16.20	0.1	5.44	10.19	3.30	2.95	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
13	LB 2	14.200	1.093	38.613	16.20	0.1	5.46	10.51	3.35	3.03	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
14	LB 2	14.100	1.093	38.613	16.20	0.1	5.48	10.83	3.40	3.12	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
15	LB 2	14.000	1.093	38.613	16.20	0.1	5.49	11.14	3.45	3.20	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
16	LB 2	13.900	1.093	38.613	16.20	0.1	5.50	11.44	3.50	3.28	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
17	LB 2	13.800	1.093	38.613	16.20	0.1	5.50	11.74	3.55	3.36	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
18	LB 2	13.700	1.093	38.613	16.20	0.1	5.51	12.03	3.60	3.44	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
19	LB 2	13.600	1.093	38.613	16.20	0.1	5.51	12.32	3.65	3.52	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
20	LB 2	13.500	1.093	38.613	16.20	0.1	5.50	12.59	3.69	3.59	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
21	LB 2	13.400	1.093	38.613	16.20	0.1	5.50	12.84	3.72	3.66	0.00	0.00	0.00	0.00	0.00	10.0	0.4	1.22	55.5	0.016148	0.016148	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
WASTELOAD # 022 (BARGE CANAL) ENTERS HERE																													
22	LB 2	13.300	1.174	41.463	16.20	0.1	5.47	12.99	3.69	3.69	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.22	55.5	0.017340	0.017340	9.823	0.531	0.10	0.18	0.03	0.18	0.00	0.74
23	LB 3	13.200	1.174	41.463	16.20	0.1	5.47	13.33	3.77	3.82	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
24	LB 3	13.100	1.174	41.463	16.20	0.1	5.47	13.65	3.85	3.95	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
25	LB 3	13.000	1.174	41.463	16.20	0.1	5.47	13.98	3.93	4.08	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
26	LB 3	12.900	1.174	41.463	16.20	0.1	5.46	14.30	4.00	4.21	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
27	LB 3	12.800	1.174	41.463	16.20	0.1	5.46	14.61	4.08	4.33	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
28	LB 3	12.700	1.174	41.463	16.20	0.1	5.45	14.92	4.15	4.46	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
29	LB 3	12.600	1.174	41.463	16.20	0.1	5.44	15.23	4.23	4.58	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
30	LB 3	12.500	1.174	41.463	16.20	0.1	5.42	15.53	4.30	4.71	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
31	LB 3	12.400	1.174	41.463	16.20	0.1	5.41	15.83	4.37	4.83	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
32	LB 3	12.300	1.174	41.463	16.20	0.1	5.39	16.12	4.44	4.95	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
33	LB 3	12.200	1.174	41.463	16.20	0.1	5.38	16.41	4.51	5.07	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
34	LB 3	12.100	1.174	41.463	16.20	0.1	5.36	16.67	4.58	5.18	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
35	LB 3	12.000	1.174	41.463	16.20	0.1	5.34	16.87	4.62	5.27	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
36	LB 4	11.900	1.174	41.463	16.20	0.1	5.32	16.75	4.59	5.22	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
37	LB 4	11.800	1.174	41.463	16.20	0.1	5.31	16.64	4.55	5.18	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
38	LB 4	11.700	1.174	41.463	16.20	0.1	5.29	16.53	4.52	5.13	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
39	LB 4	11.600	1.174	41.463	16.20	0.1	5.28	16.42	4.48	5.09	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
40	LB 4	11.500	1.174	41.463	16.20	0.1	5.26	16.31	4.45	5.05	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
41	LB 4	11.400	1.174	41.463	16.20	0.1	5.25	16.20	4.42	5.00	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
42	LB 4	11.300	1.174	41.463	16.20	0.1	5.24	16.09	4.39	4.96	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
43	LB 4	11.200	1.174	41.463	16.20	0.1	5.23	15.99	4.35	4.92	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
44	LB 4	11.100	1.174	41.463	16.20	0.1	5.22	15.89	4.32	4.88	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
45	LB 4	11.000	1.174	41.463	16.20	0.1	5.21	15.79	4.29	4.84	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
46	LB 4	10.900	1.174	41.463	16.20	0.1	5.21	15.69	4.26	4.80	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
47	LB 4	10.800	1.174	41.463	16.20	0.1	5.20	15.59	4.23	4.76	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
48	LB 4	10.700	1.174	41.463	16.20	0.1	5.20	15.49	4.20	4.72	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
49	LB 4	10.600	1.174	41.463	16.20	0.1	5.19	15.39	4.17	4.68	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
50	LB 4	10.500	1.174	41.463	16.20	0.1	5.19	15.30	4.14	4.64	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
51	LB 4	10.400	1.174	41.463	16.20	0.1	5.18	15.20	4.11	4.60	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
52	LB 4	10.300	1.174	41.463	16.20	0.1	5.18	15.11	4.08	4.56	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
53	LB 4	10.200	1.174	41.463	16.20	0.1	5.18	15.02	4.05	4.52	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
54	LB 4	10.100	1.174	41.463	16.20	0.1	5.18	14.93	4.02	4.48	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
55	LB 4	10.000	1.174	41.463	16.20	0.1	5.18	14.84	3.99	4.45	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
56	LB 4	9.900	1.174	41.463	16.20	0.1	5.18	14.76	3.96	4.41	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
57	LB 4	9.800	1.174	41.463	16.20	0.1	5.18	14.67	3.93	4.37	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
58	LB 4	9.700	1.174	41.463	16.20	0.1	5.18	14.58	3.91	4.33	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
59	LB 4	9.600	1.174	41.463	16.20	0.1	5.18	14.50	3.88	4.30	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
60	LB 4	9.500	1.174	41.463	16.20	0.1	5.19	14.42	3.85	4.26	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
61	LB 4	9.400	1.174	41.463	16.20	0.1	5.19	14.34	3.83	4.23	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
62	LB 4	9.300	1.174	41.463	16.20	0.1	5.19	14.26	3.80	4.19	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
63	LB 4	9.200	1.174	41.463	16.20	0.1	5.20	14.18	3.77	4.16	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
64	LB 4	9.100	1.174	41.463	16.20	0.1	5.20	14.10	3.75	4.12	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
65	LB 4	9.000	1.174	41.463	16.20	0.1	5.21	14.02	3.72	4.09	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
66	LB 4	8.900	1.174	41.463	16.20	0.1	5.21	13.95	3.70	4.05	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
67	LB 4	8.800	1.174	41.463	16.20	0.1	5.22	13.87	3.67	4.02	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
68	LB 4	8.700	1.174	41.463	16.20	0.1	5.23	13.80	3.65	3.98	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
69	LB 4	8.600	1.174	41.463	16.20	0.1	5.23	13.72	3.62	3.95	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
70	LB 4	8.500	1.174	41.463	16.20	0.1	5.24	13.65	3.60	3.92	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50
71	LB 4	8.400	1.174	41.463	16.20	0.1	5.25	13.56	3.58	3.89	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.27	39.6	0.023346	0.023346	9.823	0.515	0.10	0.18	0.03	0.18	0.00	0.50

CAPSULE SUMMARY FOR BAYOU L'EAU BLEU

IOR	REACH	DIST km	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	DO mg/L	BOD1 mg/L	BOD2 mg/L	NBOD mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	ORG-P mg/L	PO4-P mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
72	LB 5	8.300	1.174	41.463	16.20	0.1	5.25	13.38	3.56	3.86	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.823	0.617	0.10	0.18	0.03	0.18	0.00	0.98
73	LB 5	8.200	1.174	41.463	16.20	0.1	5.26	13.21	3.55	3.83	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.823	0.617	0.10	0.18	0.03	0.18	0.00	0.98
74	LB 5	8.100	1.174	41.463	16.20	0.1	5.26	13.04	3.54	3.80	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.823	0.617	0.10	0.18	0.03	0.18	0.00	0.98
75	LB 5	8.000	1.174	41.463	16.20	0.1	5.27	12.87	3.53	3.77	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.823	0.617	0.10	0.18	0.03	0.18	0.00	0.98
76	LB 5	7.900	1.174	41.463	16.20	0.1	5.28	12.70	3.52	3.75	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.823	0.617	0.10	0.18	0.03	0.18	0.00	0.98
77	LB 5	7.800	1.174	41.463	16.20	0.1	5.29	12.54	3.51	3.72	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.823	0.617	0.10	0.18	0.03	0.18	0.00	0.98
78	LB 5	7.700	1.174	41.463	16.20	0.1	5.30	12.38	3.49	3.69	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.823	0.617	0.10	0.18	0.03	0.18	0.00	0.98
79	LB 5	7.600	1.174	41.463	16.20	0.1	5.31	12.22	3.48	3.66	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.823	0.617	0.10	0.18	0.03	0.18	0.00	0.98
80	LB 5	7.500	1.174	41.463	16.20	0.1	5.32	12.06	3.47	3.64	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.823	0.617	0.10	0.18	0.03	0.18	0.00	0.98
81	LB 5	7.400	1.174	41.463	16.20	0.1	5.33	11.91	3.46	3.61	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.823	0.617	0.10	0.18	0.03	0.18	0.00	0.98
82	LB 5	7.300	1.174	41.463	16.20	0.1	5.34	11.75	3.45	3.59	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.18	0.00	0.98
83	LB 5	7.200	1.174	41.463	16.20	0.1	5.35	11.60	3.44	3.56	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.18	0.00	0.98
84	LB 5	7.100	1.174	41.463	16.20	0.1	5.37	11.46	3.43	3.53	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.18	0.00	0.98
85	LB 5	7.000	1.174	41.463	16.20	0.1	5.38	11.31	3.42	3.51	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.18	0.00	0.98
86	LB 5	6.900	1.174	41.463	16.20	0.1	5.40	11.17	3.41	3.48	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.18	0.00	0.98
87	LB 5	6.800	1.174	41.463	16.20	0.1	5.41	11.03	3.40	3.46	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.18	0.00	0.98
88	LB 5	6.700	1.174	41.463	16.20	0.1	5.42	10.89	3.39	3.43	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.18	0.00	0.98
89	LB 5	6.600	1.174	41.463	16.20	0.1	5.44	10.75	3.38	3.41	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.18	0.00	0.98
90	LB 5	6.500	1.174	41.463	16.20	0.1	5.45	10.62	3.37	3.38	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.18	0.00	0.98
91	LB 5	6.400	1.174	41.463	16.20	0.1	5.47	10.49	3.35	3.36	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.18	0.00	0.98
92	LB 5	6.300	1.174	41.463	16.20	0.1	5.49	10.36	3.33	3.33	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.18	0.00	0.98
93	LB 6	6.200	1.174	41.463	16.20	0.1	5.50	10.25	3.27	3.29	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.46	0.00	0.98
94	LB 6	6.100	1.174	41.463	16.20	0.1	5.52	10.14	3.21	3.24	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.46	0.00	0.98
95	LB 6	6.000	1.174	41.463	16.20	0.1	5.54	10.04	3.15	3.20	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.46	0.00	0.98
96	LB 6	5.900	1.174	41.463	16.20	0.1	5.55	9.93	3.09	3.15	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.822	0.617	0.10	0.18	0.03	0.46	0.00	0.98
97	LB 6	5.800	1.174	41.463	16.20	0.1	5.57	9.83	3.04	3.11	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
98	LB 6	5.700	1.174	41.463	16.20	0.1	5.59	9.73	2.98	3.07	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
99	LB 6	5.600	1.174	41.463	16.20	0.1	5.61	9.63	2.93	3.03	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
100	LB 6	5.500	1.174	41.463	16.20	0.1	5.63	9.53	2.88	2.99	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
101	LB 6	5.400	1.174	41.463	16.20	0.1	5.65	9.43	2.83	2.95	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
102	LB 6	5.300	1.174	41.463	16.20	0.1	5.66	9.34	2.78	2.91	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
103	LB 6	5.200	1.174	41.463	16.20	0.1	5.68	9.24	2.73	2.87	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
104	LB 6	5.100	1.174	41.463	16.20	0.1	5.70	9.15	2.68	2.83	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
105	LB 6	5.000	1.174	41.463	16.20	0.1	5.72	9.06	2.64	2.79	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
106	LB 6	4.900	1.174	41.463	16.20	0.1	5.74	8.97	2.59	2.75	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
107	LB 6	4.800	1.174	41.463	16.20	0.1	5.76	8.88	2.55	2.72	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
108	LB 6	4.700	1.174	41.463	16.20	0.1	5.78	8.79	2.51	2.68	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
109	LB 6	4.600	1.174	41.463	16.20	0.1	5.80	8.71	2.47	2.65	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
110	LB 6	4.500	1.174	41.463	16.20	0.1	5.82	8.62	2.43	2.61	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
111	LB 6	4.400	1.174	41.463	16.20	0.1	5.84	8.54	2.39	2.58	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
112	LB 6	4.300	1.174	41.463	16.20	0.1	5.86	8.46	2.35	2.54	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
113	LB 6	4.200	1.174	41.463	16.20	0.1	5.88	8.38	2.31	2.51	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
114	LB 6	4.100	1.174	41.463	16.20	0.1	5.90	8.30	2.28	2.47	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
115	LB 6	4.000	1.174	41.463	16.20	0.1	5.91	8.22	2.24	2.44	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
116	LB 6	3.900	1.174	41.463	16.20	0.1	5.93	8.14	2.21	2.41	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021218	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
117	LB 6	3.800	1.174	41.463	16.20	0.1	5.95	8.07	2.17	2.38	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021224	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
118	LB 6	3.700	1.174	41.463	16.20	0.1	5.97	7.99	2.14	2.35	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021244	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
119	LB 6	3.600	1.174	41.463	16.20	0.1	5.99	7.92	2.11	2.31	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021270	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
120	LB 6	3.500	1.174	41.463	16.20	0.1	6.01	7.85	2.08	2.28	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021302	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
121	LB 6	3.400	1.174	41.463	16.20	0.1	6.03	7.78	2.05	2.25	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021338	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
122	LB 6	3.300	1.174	41.463	16.20	0.1	6.05	7.71	2.02	2.22	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021378	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
123	LB 6	3.200	1.174	41.463	16.20	0.1	6.07	7.64	1.99	2.20	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021422	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
124	LB 6	3.100	1.174	41.463	16.20	0.1	6.09	7.57	1.96	2.17	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021469	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
125	LB 6	3.000	1.174	41.463	16.20	0.1	6.11	7.50	1.94	2.14	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021518	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
126	LB 6	2.900	1.174	41.463	16.20	0.1	6.13	7.43	1.91	2.11	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021571	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
127	LB 6	2.800	1.174	41.463	16.20	0.1	6.14	7.37	1.88	2.08	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021625	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
128	LB 6	2.700	1.174	41.463	16.20	0.1	6.16	7.31	1.86	2.06	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021682	9.821	0.617	0.10	0.18	0.03	0.46	0.00	0.98
129	LB 6	2.600	1.174	41.463	16.20	0.1	6.18	7.24	1.84	2.03	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021741	9.820	0.617	0.10	0.18	0.03	0.46	0.00	0.98
130	LB 6	2.500	1.174	41.463	16.20	0.1	6.20	7.18	1.81	2.00	0.00	0.00	0.00	0.00	0.00	10.0	0.5	1.05	52.7	0.021218	0.021802	9.820	0.617	0.10	0.18	0.03	0.46	0.00	0.98
131	LB 7	2.400	1.174	41.463	16.20	0.1	6.20	7.13	1.80	1.99	0.00	0.00	0.00	0.00	0.00	10.0	0.6	1.49	40.5	0.019437	0.020017	9.820	0.435	0.10	0.18	0.03	0.46	0.00	0.74
132	LB 7	2.300	1.174	41.463	16.20	0.1	6.21	7.09	1.78	1.98	0.00	0.00	0.00	0.00	0.00	10.0	0.6	1.49	40.5	0.019437	0.020062	9.820	0.435	0.10	0.18	0.03	0.46	0.00	0.74
133	LB 7	2.200	1.174	41.463	16.20	0.1	6.22	7.04	1.77	1.96	0.00	0.00	0.00	0.00	0.00	10.0	0.6	1.49	40.5	0.019437	0.020108	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
134	LB 7	2.100	1.174	41.463	16.20	0.1	6.23	7.00	1.75	1.95	0.00	0.00	0.00	0.00	0.00	10.0	0.6	1.49	40.5	0.019437	0.020155	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
135	LB 7	2.000	1.174	41.463	16.20	0.1	6.24	6.96	1.74	1.94	0.00	0.00	0.00	0.00	0.00	10.0	0.6	1.49	40.5	0.019437	0.020203	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
136	LB 7	1.900	1.174	41.463	16.20	0.1	6.24	6.91	1.73	1.92	0.00	0.00	0.00	0.00	0.00	10.0	0.6	1.49	40.5	0.019437	0.020252	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
137	LB 7	1.800	1.174	41.463	16.20	0.1	6.25	6.87	1.71	1.91	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020301	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
138	LB 7	1.700	1.174	41.463	16.20	0.1	6.26	6.83	1.70	1.90	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020351	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
139	LB 7	1.600	1.174	41.463	16.20	0.1	6.27	6.79	1.69	1.89	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020402	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
140	LB 7	1.500	1.174	41.463	16.20	0.1	6.28	6.75	1.68	1.88	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020454	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
141	LB 7	1.400	1.174	41.463	16.20	0.1	6.29	6.71	1.67	1.86	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020507	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
142	LB 7	1.300	1.174	41.463	16.20	0.1	6.29	6.67	1.66	1.85	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020560	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
143	LB 7	1.200	1.174	41.463	16.20	0.1	6.30	6.63	1.65	1.84	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020614	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
144	LB 7	1.100	1.174	41.463	16.20	0.1	6.31	6.60	1.63	1.83	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020669	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
145	LB 7	1.000	1.174	41.463	16.20	0.1	6.32	6.56	1.62	1.82	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020724	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74

CAPSULE SUMMARY FOR BAYOU L'EAU BLEU

IOR	REACH	DIST km	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	DO mg/L	BOD1 mg/L	BOD2 mg/L	NBOD mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	ORG-P mg/L	PO4-P mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
146	LB 7	0.900	1.174	41.463	16.20	0.1	6.33	6.52	1.61	1.81	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020780	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
147	LB 7	0.800	1.174	41.463	16.20	0.1	6.34	6.49	1.61	1.80	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020836	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
148	LB 7	0.700	1.174	41.463	16.20	0.1	6.35	6.45	1.60	1.79	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020893	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
149	LB 7	0.600	1.174	41.463	16.20	0.1	6.36	6.42	1.59	1.78	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.020950	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
150	LB 7	0.500	1.174	41.463	16.20	0.1	6.37	6.38	1.58	1.77	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.021008	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
151	LB 7	0.400	1.174	41.463	16.20	0.1	6.37	6.35	1.57	1.76	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.021067	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
152	LB 7	0.300	1.174	41.463	16.20	0.1	6.37	6.31	1.55	1.75	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.021126	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
153	LB 7	0.200	1.174	41.463	16.20	0.1	6.33	6.24	1.51	1.76	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.021186	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
154	LB 7	0.100	1.174	41.463	16.20	0.1	6.13	6.07	1.39	1.81	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.021246	9.821	0.435	0.10	0.18	0.03	0.46	0.00	0.74
155	LB 7	0.000	1.174	41.463	16.20	0.1	5.32	5.49	0.92	2.06	0.00	0.00	0.00	0.00	0.00	10.0	0.7	1.49	40.5	0.019437	0.021306	9.821	0.436	0.10	0.18	0.03	0.46	0.00	0.74

FINAL REPORT BAYOU L'EAU BLEU — WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 1 BLB FROM CC TO BLB01 — WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

********** INPUTS FOR REACH 1 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
1	HDWTR	1.07230	37.86771	16.20	0.09	193.00	13.40	5.12	9.73	2.27	9.73	2.27	2.24	0.00	0.00	0.00	10.00	0.00	0.00
6	WSTLD	0.02110	0.74514	16.20	0.13	277.00	18.60	5.00	4.64	2.29	4.64	2.29	2.90	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 1 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
1	15.50	15.40	1.07230	37.86771	0.0	0.015837	0.07	0.07	1.22	55.50	6771.0	5550.0	67.7	350.	0.000115	0.430	0.015837	0.0000000
2	15.40	15.30	1.07230	37.86771	0.0	0.015837	0.07	0.15	1.22	55.50	6771.0	5550.0	67.7	699.	0.000230	0.430	0.015837	0.0000000
3	15.30	15.20	1.07230	37.86771	0.0	0.015837	0.07	0.22	1.22	55.50	6771.0	5550.0	67.7	1049.	0.000344	0.430	0.015837	0.0000000
4	15.20	15.10	1.07230	37.86771	0.0	0.015837	0.07	0.29	1.22	55.50	6771.0	5550.0	67.7	1399.	0.000459	0.430	0.015837	0.0000000
5	15.10	15.00	1.07230	37.86771	0.0	0.015837	0.07	0.37	1.22	55.50	6771.0	5550.0	67.7	1748.	0.000574	0.430	0.015837	0.0000000
6	15.00	14.90	1.09340	38.61285	1.9	0.016148	0.07	0.44	1.22	55.50	6771.0	5550.0	67.7	2098.	0.000689	0.438	0.016148	0.0000000
TOT							0.44				40626.0	33300.0						0.0000000
AVG						0.015888			1.22	55.50			67.7					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 1 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	15.400	9.82	0.53	0.10	0.37	0.00	0.00	0.03	0.18	0.00	1.23	1.23	1.23	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	15.300	9.82	0.53	0.10	0.37	0.00	0.00	0.03	0.18	0.00	1.23	1.23	1.23	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	15.200	9.82	0.53	0.10	0.37	0.00	0.00	0.03	0.18	0.00	1.23	1.23	1.23	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	15.100	9.82	0.53	0.10	0.37	0.00	0.00	0.03	0.18	0.00	1.23	1.23	1.23	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	15.000	9.82	0.53	0.10	0.37	0.00	0.00	0.03	0.18	0.00	1.23	1.23	1.23	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	14.900	9.82	0.53	0.10	0.37	0.00	0.00	0.03	0.18	0.00	1.23	1.23	1.23	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.57	0.12	0.40	0.00	0.00	0.04	0.20	0.00	1.56			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 1 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
1	15.400	16.20	0.09	193.00	13.40	5.14	9.47	2.38	9.47	2.38	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
2	15.300	16.20	0.09	193.00	13.40	5.16	9.16	2.51	9.16	2.51	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
3	15.200	16.20	0.09	193.02	13.40	5.18	8.86	2.63	8.86	2.63	2.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
4	15.100	16.20	0.09	193.07	13.40	5.20	8.57	2.76	8.57	2.76	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
5	15.000	16.20	0.09	193.35	13.42	5.22	8.31	2.88	8.31	2.88	2.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
6	14.900	16.20	0.09	194.62	13.50	5.24	8.12	2.97	8.12	2.97	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 1 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
1	15.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
2	15.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
3	15.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
4	15.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
5	15.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
6	14.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU
REACH NO. 2 BLB01 TO BARGE CANAL

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

********** INPUTS FOR REACH 2 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
7	UPR RCH	1.09340	38.61285	16.20	0.09	194.62	13.50	5.24	8.12	2.97	8.12	2.97	2.42	0.00	0.00	0.00	10.00	0.00	0.00
22	WSTLD	0.08070	2.84988	16.20	0.08	184.00	13.50	5.00	10.56	2.29	10.56	2.29	2.58	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 2 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
7	14.90	14.80	1.09340	38.61285	1.9	0.016148	0.07	0.51	1.22	55.50	6771.0	5550.0	67.7	2448.	0.000803	0.438	0.016148	0.0000000
8	14.80	14.70	1.09340	38.61285	1.9	0.016148	0.07	0.58	1.22	55.50	6771.0	5550.0	67.7	2797.	0.000918	0.438	0.016148	0.0000000
9	14.70	14.60	1.09340	38.61285	1.9	0.016148	0.07	0.65	1.22	55.50	6771.0	5550.0	67.7	3147.	0.001033	0.438	0.016148	0.0000000
10	14.60	14.50	1.09340	38.61285	1.9	0.016148	0.07	0.72	1.22	55.50	6771.0	5550.0	67.7	3496.	0.001148	0.438	0.016148	0.0000000
11	14.50	14.40	1.09340	38.61285	1.9	0.016148	0.07	0.80	1.22	55.50	6771.0	5550.0	67.7	3846.	0.001262	0.438	0.016148	0.0000000
12	14.40	14.30	1.09340	38.61285	1.9	0.016148	0.07	0.87	1.22	55.50	6771.0	5550.0	67.7	4196.	0.001377	0.438	0.016148	0.0000000
13	14.30	14.20	1.09340	38.61285	1.9	0.016148	0.07	0.94	1.22	55.50	6771.0	5550.0	67.7	4545.	0.001492	0.438	0.016148	0.0000000
14	14.20	14.10	1.09340	38.61285	1.9	0.016148	0.07	1.01	1.22	55.50	6771.0	5550.0	67.7	4895.	0.001607	0.438	0.016148	0.0000000
15	14.10	14.00	1.09340	38.61285	1.9	0.016148	0.07	1.08	1.22	55.50	6771.0	5550.0	67.7	5245.	0.001721	0.438	0.016148	0.0000000
16	14.00	13.90	1.09340	38.61285	1.9	0.016148	0.07	1.15	1.22	55.50	6771.0	5550.0	67.7	5594.	0.001836	0.438	0.016148	0.0000000
17	13.90	13.80	1.09340	38.61285	1.9	0.016148	0.07	1.23	1.22	55.50	6771.0	5550.0	67.7	5944.	0.001951	0.438	0.016148	0.0000000
18	13.80	13.70	1.09340	38.61285	1.9	0.016148	0.07	1.30	1.22	55.50	6771.0	5550.0	67.7	6294.	0.002066	0.438	0.016148	0.0000000
19	13.70	13.60	1.09340	38.61285	1.9	0.016148	0.07	1.37	1.22	55.50	6771.0	5550.0	67.7	6643.	0.002180	0.438	0.016148	0.0000000
20	13.60	13.50	1.09340	38.61285	1.9	0.016148	0.07	1.44	1.22	55.50	6771.0	5550.0	67.7	6993.	0.002295	0.438	0.016148	0.0000000
21	13.50	13.40	1.09340	38.61285	1.9	0.016148	0.07	1.51	1.22	55.50	6771.0	5550.0	67.7	7343.	0.002410	0.438	0.016148	0.0000000
22	13.40	13.30	1.17410	41.46273	8.7	0.017340	0.07	1.58	1.22	55.50	6771.0	5550.0	67.7	7692.	0.002525	0.471	0.017340	0.0000000
TOT							1.14				108336.0	88800.0						0.0000000
AVG						0.016218			1.22	55.50			67.7					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 2 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
7	14.800	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	14.700	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	14.600	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	14.500	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	14.400	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	14.300	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	14.200	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14.100	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	14.000	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	13.900	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	13.800	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	13.700	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	13.600	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	13.500	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	13.400	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	13.300	9.82	0.53	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.74	0.74	0.74	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.57	0.12	0.20	0.00	0.00	0.04	0.20	0.00	0.94			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 2 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
7	14.800	16.20	0.09	194.62	13.50	5.29	8.48	3.03	8.48	3.03	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
8	14.700	16.20	0.09	194.62	13.50	5.33	8.84	3.09	8.84	3.09	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
9	14.600	16.20	0.09	194.62	13.50	5.36	9.18	3.14	9.18	3.14	2.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
10	14.500	16.20	0.09	194.62	13.50	5.39	9.53	3.20	9.53	3.20	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
11	14.400	16.20	0.09	194.62	13.50	5.42	9.86	3.25	9.86	3.25	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
12	14.300	16.20	0.09	194.62	13.50	5.44	10.19	3.30	10.19	3.30	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
13	14.200	16.20	0.09	194.62	13.50	5.46	10.51	3.35	10.51	3.35	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
14	14.100	16.20	0.09	194.62	13.50	5.48	10.83	3.40	10.83	3.40	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
15	14.000	16.20	0.09	194.62	13.50	5.49	11.14	3.45	11.14	3.45	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
16	13.900	16.20	0.09	194.62	13.50	5.50	11.44	3.50	11.44	3.50	3.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
17	13.800	16.20	0.09	194.62	13.50	5.50	11.74	3.55	11.74	3.55	3.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
18	13.700	16.20	0.09	194.62	13.50	5.51	12.03	3.60	12.03	3.60	3.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
19	13.600	16.20	0.09	194.61	13.50	5.51	12.32	3.65	12.32	3.65	3.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
20	13.500	16.20	0.09	194.59	13.50	5.50	12.59	3.69	12.59	3.69	3.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
21	13.400	16.20	0.09	194.46	13.50	5.50	12.84	3.72	12.84	3.72	3.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
22	13.300	16.20	0.09	193.89	13.50	5.47	12.99	3.69	12.99	3.69	3.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 2 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
7	14.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
8	14.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
9	14.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
10	14.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
11	14.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
12	14.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
13	14.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
14	14.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
15	14.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
16	13.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
17	13.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
18	13.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0

19	13.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20	13.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
21	13.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
22	13.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 3 BARGE CANAL TO RKM 12.0 WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

********** INPUTS FOR REACH 3 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
23	UPR RCH	1.17410	41.46273	16.20	0.09	193.89	13.50	5.47	12.99	3.69	12.99	3.69	3.69	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 3 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
23	13.30	13.20	1.17410	41.46273	8.7	0.023346	0.05	1.63	1.27	39.60	5029.2	3960.0	50.3	7942.	0.003509	0.655	0.023346	0.0000000
24	13.20	13.10	1.17410	41.46273	8.7	0.023346	0.05	1.68	1.27	39.60	5029.2	3960.0	50.3	8191.	0.003619	0.655	0.023346	0.0000000
25	13.10	13.00	1.17410	41.46273	8.7	0.023346	0.05	1.73	1.27	39.60	5029.2	3960.0	50.3	8441.	0.003730	0.655	0.023346	0.0000000
26	13.00	12.90	1.17410	41.46273	8.7	0.023346	0.05	1.78	1.27	39.60	5029.2	3960.0	50.3	8690.	0.003840	0.655	0.023346	0.0000000
27	12.90	12.80	1.17410	41.46273	8.7	0.023346	0.05	1.83	1.27	39.60	5029.2	3960.0	50.3	8940.	0.003950	0.655	0.023346	0.0000000
28	12.80	12.70	1.17410	41.46273	8.7	0.023346	0.05	1.88	1.27	39.60	5029.2	3960.0	50.3	9189.	0.004060	0.655	0.023346	0.0000000
29	12.70	12.60	1.17410	41.46273	8.7	0.023346	0.05	1.93	1.27	39.60	5029.2	3960.0	50.3	9439.	0.004171	0.655	0.023346	0.0000000
30	12.60	12.50	1.17410	41.46273	8.7	0.023346	0.05	1.98	1.27	39.60	5029.2	3960.0	50.3	9688.	0.004281	0.655	0.023346	0.0000000
31	12.50	12.40	1.17410	41.46273	8.7	0.023346	0.05	2.03	1.27	39.60	5029.2	3960.0	50.3	9938.	0.004391	0.655	0.023346	0.0000000
32	12.40	12.30	1.17410	41.46273	8.7	0.023346	0.05	2.07	1.27	39.60	5029.2	3960.0	50.3	10187.	0.004501	0.655	0.023346	0.0000000
33	12.30	12.20	1.17410	41.46273	8.7	0.023346	0.05	2.12	1.27	39.60	5029.2	3960.0	50.3	10437.	0.004612	0.655	0.023346	0.0000000
34	12.20	12.10	1.17410	41.46273	8.7	0.023346	0.05	2.17	1.27	39.60	5029.2	3960.0	50.3	10686.	0.004722	0.655	0.023346	0.0000000
35	12.10	12.00	1.17410	41.46273	8.7	0.023346	0.05	2.22	1.27	39.60	5029.2	3960.0	50.3	10936.	0.004832	0.655	0.023346	0.0000000
TOT							0.64				65379.6	51480.0						0.0000000
AVG						0.023346			1.27	39.60			50.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 3 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
23	13.200	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	13.100	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	13.000	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	12.900	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	12.800	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	12.700	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	12.600	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	12.500	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	12.400	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	12.300	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	12.200	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	12.100	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	12.000	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.56	0.12	0.20	0.00	0.00	0.04	0.20	0.00	0.63			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 3 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
23	13.200	16.20	0.09	193.89	13.50	5.47	13.33	3.77	13.33	3.77	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
24	13.100	16.20	0.09	193.89	13.50	5.47	13.65	3.85	13.65	3.85	3.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
25	13.000	16.20	0.09	193.89	13.50	5.47	13.98	3.93	13.98	3.93	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
26	12.900	16.20	0.09	193.89	13.50	5.46	14.30	4.00	14.30	4.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
27	12.800	16.20	0.09	193.89	13.50	5.46	14.61	4.08	14.61	4.08	4.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
28	12.700	16.20	0.09	193.89	13.50	5.45	14.92	4.15	14.92	4.15	4.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
29	12.600	16.20	0.09	193.89	13.50	5.44	15.23	4.23	15.23	4.23	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
30	12.500	16.20	0.09	193.89	13.50	5.42	15.53	4.30	15.53	4.30	4.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
31	12.400	16.20	0.09	193.89	13.50	5.41	15.83	4.37	15.83	4.37	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
32	12.300	16.20	0.09	193.89	13.50	5.39	16.12	4.44	16.12	4.44	4.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
33	12.200	16.20	0.09	193.89	13.50	5.38	16.41	4.51	16.41	4.51	5.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
34	12.100	16.20	0.09	193.89	13.50	5.36	16.67	4.58	16.67	4.58	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
35	12.000	16.20	0.09	193.89	13.50	5.34	16.87	4.62	16.87	4.62	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 3 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
23	13.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
24	13.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
25	13.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
26	12.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
27	12.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
28	12.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
29	12.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
30	12.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
31	12.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
32	12.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
33	12.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
34	12.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
35	12.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 4 BLB FROM RKM 12.0 TO RKM 8.4 WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

********** INPUTS FOR REACH 4 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
36	UPR RCH	1.17410	41.46273	16.20	0.09	193.89	13.50	5.34	16.87	4.62	16.87	4.62	5.27	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 4 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
36	12.00	11.90	1.17410	41.46273	8.7	0.023346	0.05	2.27	1.27	39.60	5029.2	3960.0	50.3	11185.	0.004942	0.655	0.023346	0.0000000
37	11.90	11.80	1.17410	41.46273	8.7	0.023346	0.05	2.32	1.27	39.60	5029.2	3960.0	50.3	11435.	0.005052	0.655	0.023346	0.0000000
38	11.80	11.70	1.17410	41.46273	8.7	0.023346	0.05	2.37	1.27	39.60	5029.2	3960.0	50.3	11684.	0.005163	0.655	0.023346	0.0000000
39	11.70	11.60	1.17410	41.46273	8.7	0.023346	0.05	2.42	1.27	39.60	5029.2	3960.0	50.3	11933.	0.005273	0.655	0.023346	0.0000000
40	11.60	11.50	1.17410	41.46273	8.7	0.023346	0.05	2.47	1.27	39.60	5029.2	3960.0	50.3	12183.	0.005383	0.655	0.023346	0.0000000

41	11.50	11.40	1.17410	41.46273	8.7	0.023346	0.05	2.52	1.27	39.60	5029.2	3960.0	50.3	12432.	0.005493	0.655	0.023346	0.0000000
42	11.40	11.30	1.17410	41.46273	8.7	0.023346	0.05	2.57	1.27	39.60	5029.2	3960.0	50.3	12682.	0.005604	0.655	0.023346	0.0000000
43	11.30	11.20	1.17410	41.46273	8.7	0.023346	0.05	2.62	1.27	39.60	5029.2	3960.0	50.3	12931.	0.005714	0.655	0.023346	0.0000000
44	11.20	11.10	1.17410	41.46273	8.7	0.023346	0.05	2.67	1.27	39.60	5029.2	3960.0	50.3	13181.	0.005824	0.655	0.023346	0.0000000
45	11.10	11.00	1.17410	41.46273	8.7	0.023346	0.05	2.72	1.27	39.60	5029.2	3960.0	50.3	13430.	0.005934	0.655	0.023346	0.0000000
46	11.00	10.90	1.17410	41.46273	8.7	0.023346	0.05	2.77	1.27	39.60	5029.2	3960.0	50.3	13680.	0.006045	0.655	0.023346	0.0000000
47	10.90	10.80	1.17410	41.46273	8.7	0.023346	0.05	2.82	1.27	39.60	5029.2	3960.0	50.3	13929.	0.006155	0.655	0.023346	0.0000000
48	10.80	10.70	1.17410	41.46273	8.7	0.023346	0.05	2.87	1.27	39.60	5029.2	3960.0	50.3	14179.	0.006265	0.655	0.023346	0.0000000
49	10.70	10.60	1.17410	41.46273	8.7	0.023346	0.05	2.92	1.27	39.60	5029.2	3960.0	50.3	14428.	0.006375	0.655	0.023346	0.0000000
50	10.60	10.50	1.17410	41.46273	8.7	0.023346	0.05	2.97	1.27	39.60	5029.2	3960.0	50.3	14678.	0.006486	0.655	0.023346	0.0000000
51	10.50	10.40	1.17410	41.46273	8.7	0.023346	0.05	3.02	1.27	39.60	5029.2	3960.0	50.3	14927.	0.006596	0.655	0.023346	0.0000000
52	10.40	10.30	1.17410	41.46273	8.7	0.023346	0.05	3.07	1.27	39.60	5029.2	3960.0	50.3	15177.	0.006706	0.655	0.023346	0.0000000
53	10.30	10.20	1.17410	41.46273	8.7	0.023346	0.05	3.12	1.27	39.60	5029.2	3960.0	50.3	15426.	0.006816	0.655	0.023346	0.0000000
54	10.20	10.10	1.17410	41.46273	8.7	0.023346	0.05	3.17	1.27	39.60	5029.2	3960.0	50.3	15676.	0.006927	0.655	0.023346	0.0000000
55	10.10	10.00	1.17410	41.46273	8.7	0.023346	0.05	3.21	1.27	39.60	5029.2	3960.0	50.3	15925.	0.007037	0.655	0.023346	0.0000000
56	10.00	9.90	1.17410	41.46273	8.7	0.023346	0.05	3.26	1.27	39.60	5029.2	3960.0	50.3	16175.	0.007147	0.655	0.023346	0.0000000
57	9.90	9.80	1.17410	41.46273	8.7	0.023346	0.05	3.31	1.27	39.60	5029.2	3960.0	50.3	16424.	0.007257	0.655	0.023346	0.0000000
58	9.80	9.70	1.17410	41.46273	8.7	0.023346	0.05	3.36	1.27	39.60	5029.2	3960.0	50.3	16674.	0.007367	0.655	0.023346	0.0000000
59	9.70	9.60	1.17410	41.46273	8.7	0.023346	0.05	3.41	1.27	39.60	5029.2	3960.0	50.3	16923.	0.007478	0.655	0.023346	0.0000000
60	9.60	9.50	1.17410	41.46273	8.7	0.023346	0.05	3.46	1.27	39.60	5029.2	3960.0	50.3	17173.	0.007588	0.655	0.023346	0.0000000
61	9.50	9.40	1.17410	41.46273	8.7	0.023346	0.05	3.51	1.27	39.60	5029.2	3960.0	50.3	17422.	0.007698	0.655	0.023346	0.0000000
62	9.40	9.30	1.17410	41.46273	8.7	0.023346	0.05	3.56	1.27	39.60	5029.2	3960.0	50.3	17672.	0.007808	0.655	0.023346	0.0000000
63	9.30	9.20	1.17410	41.46273	8.7	0.023346	0.05	3.61	1.27	39.60	5029.2	3960.0	50.3	17921.	0.007919	0.655	0.023346	0.0000000
64	9.20	9.10	1.17410	41.46273	8.7	0.023346	0.05	3.66	1.27	39.60	5029.2	3960.0	50.3	18170.	0.008029	0.655	0.023346	0.0000000
65	9.10	9.00	1.17410	41.46273	8.7	0.023346	0.05	3.71	1.27	39.60	5029.2	3960.0	50.3	18420.	0.008139	0.655	0.023346	0.0000000
66	9.00	8.90	1.17410	41.46273	8.7	0.023346	0.05	3.76	1.27	39.60	5029.2	3960.0	50.3	18669.	0.008249	0.655	0.023346	0.0000000
67	8.90	8.80	1.17410	41.46273	8.7	0.023346	0.05	3.81	1.27	39.60	5029.2	3960.0	50.3	18919.	0.008360	0.655	0.023346	0.0000000
68	8.80	8.70	1.17410	41.46273	8.7	0.023346	0.05	3.86	1.27	39.60	5029.2	3960.0	50.3	19168.	0.008470	0.655	0.023346	0.0000000
69	8.70	8.60	1.17410	41.46273	8.7	0.023346	0.05	3.91	1.27	39.60	5029.2	3960.0	50.3	19418.	0.008580	0.655	0.023346	0.0000000
70	8.60	8.50	1.17410	41.46273	8.7	0.023346	0.05	3.96	1.27	39.60	5029.2	3960.0	50.3	19667.	0.008690	0.655	0.023346	0.0000000
71	8.50	8.40	1.17410	41.46273	8.7	0.023346	0.05	4.01	1.27	39.60	5029.2	3960.0	50.3	19917.	0.008801	0.655	0.023346	0.0000000
TOT							1.78				181051.3	142560.0						0.0000000
AVG						0.023346			1.27	39.60			50.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 4 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
36	11.900	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	11.800	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	11.700	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	11.600	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	11.500	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	11.400	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	11.300	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	11.200	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	11.100	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	11.000	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	10.900	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	10.800	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	10.700	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	10.600	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	10.500	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	10.400	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	10.300	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	10.200	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	10.100	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	10.000	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	9.900	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	9.800	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	9.700	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	9.600	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	9.500	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	9.400	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

62	9.300	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	9.200	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	9.100	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	9.000	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	8.900	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	8.800	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	8.700	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	8.600	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	8.500	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	8.400	9.82	0.52	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.50	0.50	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.56	0.12	0.20	0.00	0.00	0.04	0.20	0.00	0.63			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00					0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 4 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
36	11.900	16.20	0.09	193.89	13.50	5.32	16.75	4.59	16.75	4.59	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
37	11.800	16.20	0.09	193.89	13.50	5.31	16.64	4.55	16.64	4.55	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
38	11.700	16.20	0.09	193.89	13.50	5.29	16.53	4.52	16.53	4.52	5.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
39	11.600	16.20	0.09	193.89	13.50	5.28	16.42	4.48	16.42	4.48	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
40	11.500	16.20	0.09	193.89	13.50	5.26	16.31	4.45	16.31	4.45	5.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
41	11.400	16.20	0.09	193.89	13.50	5.25	16.20	4.42	16.20	4.42	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
42	11.300	16.20	0.09	193.89	13.50	5.24	16.09	4.39	16.09	4.39	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
43	11.200	16.20	0.09	193.89	13.50	5.23	15.99	4.35	15.99	4.35	4.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
44	11.100	16.20	0.09	193.89	13.50	5.22	15.89	4.32	15.89	4.32	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
45	11.000	16.20	0.09	193.89	13.50	5.21	15.79	4.29	15.79	4.29	4.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
46	10.900	16.20	0.09	193.89	13.50	5.21	15.69	4.26	15.69	4.26	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
47	10.800	16.20	0.09	193.89	13.50	5.20	15.59	4.23	15.59	4.23	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
48	10.700	16.20	0.09	193.89	13.50	5.20	15.49	4.20	15.49	4.20	4.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
49	10.600	16.20	0.09	193.89	13.50	5.19	15.39	4.17	15.39	4.17	4.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
50	10.500	16.20	0.09	193.89	13.50	5.19	15.30	4.14	15.30	4.14	4.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
51	10.400	16.20	0.09	193.89	13.50	5.18	15.20	4.11	15.20	4.11	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
52	10.300	16.20	0.09	193.89	13.50	5.18	15.11	4.08	15.11	4.08	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
53	10.200	16.20	0.09	193.89	13.50	5.18	15.02	4.05	15.02	4.05	4.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
54	10.100	16.20	0.09	193.89	13.50	5.18	14.93	4.02	14.93	4.02	4.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
55	10.000	16.20	0.09	193.89	13.50	5.18	14.84	3.99	14.84	3.99	4.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
56	9.900	16.20	0.09	193.89	13.50	5.18	14.76	3.96	14.76	3.96	4.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
57	9.800	16.20	0.09	193.89	13.50	5.18	14.67	3.93	14.67	3.93	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
58	9.700	16.20	0.09	193.89	13.50	5.18	14.58	3.91	14.58	3.91	4.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
59	9.600	16.20	0.09	193.89	13.50	5.18	14.50	3.88	14.50	3.88	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
60	9.500	16.20	0.09	193.89	13.50	5.19	14.42	3.85	14.42	3.85	4.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
61	9.400	16.20	0.09	193.89	13.50	5.19	14.34	3.83	14.34	3.83	4.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
62	9.300	16.20	0.09	193.89	13.50	5.19	14.26	3.80	14.26	3.80	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
63	9.200	16.20	0.09	193.89	13.50	5.20	14.18	3.77	14.18	3.77	4.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
64	9.100	16.20	0.09	193.89	13.50	5.20	14.10	3.75	14.10	3.75	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
65	9.000	16.20	0.09	193.89	13.50	5.21	14.02	3.72	14.02	3.72	4.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
66	8.900	16.20	0.09	193.89	13.50	5.21	13.95	3.70	13.95	3.70	4.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
67	8.800	16.20	0.09	193.89	13.50	5.22	13.87	3.67	13.87	3.67	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
68	8.700	16.20	0.09	193.89	13.50	5.23	13.80	3.65	13.80	3.65	3.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
69	8.600	16.20	0.09	193.89	13.50	5.23	13.72	3.62	13.72	3.62	3.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
70	8.500	16.20	0.09	193.89	13.50	5.24	13.65	3.60	13.65	3.60	3.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
71	8.400	16.20	0.09	193.89	13.50	5.25	13.56	3.58	13.56	3.58	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 4 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
36	11.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
37	11.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
38	11.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
39	11.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
40	11.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
41	11.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
42	11.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
43	11.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
44	11.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
45	11.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0

46	10.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
47	10.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
48	10.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
49	10.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
50	10.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
51	10.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
52	10.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
53	10.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
54	10.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
55	10.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
56	9.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
57	9.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
58	9.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
59	9.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
60	9.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
61	9.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
62	9.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
63	9.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
64	9.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
65	9.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
66	8.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
67	8.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
68	8.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
69	8.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
70	8.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
71	8.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0

20 DEG C RATE 0.000 0.000 0.000 0.000 0.000 0.000 0.000

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 5 BLB FROM RKM 8.4 TO BLB05 WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

********** INPUTS FOR REACH 5 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
72	UPR RCH	1.17410	41.46273	16.20	0.09	193.89	13.50	5.25	13.56	3.58	13.56	3.58	3.89	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 5 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
72	8.40	8.30	1.17410	41.46273	8.7	0.021218	0.05	4.06	1.05	52.70	5533.5	5270.0	55.3	20249.	0.008132	0.508	0.021218	0.0000000
73	8.30	8.20	1.17410	41.46273	8.7	0.021218	0.05	4.12	1.05	52.70	5533.5	5270.0	55.3	20581.	0.008265	0.508	0.021218	0.0000000
74	8.20	8.10	1.17410	41.46273	8.7	0.021218	0.05	4.17	1.05	52.70	5533.5	5270.0	55.3	20913.	0.008398	0.508	0.021218	0.0000000
75	8.10	8.00	1.17410	41.46273	8.7	0.021218	0.05	4.23	1.05	52.70	5533.5	5270.0	55.3	21245.	0.008532	0.508	0.021218	0.0000000
76	8.00	7.90	1.17410	41.46273	8.7	0.021218	0.05	4.28	1.05	52.70	5533.5	5270.0	55.3	21577.	0.008665	0.508	0.021218	0.0000000
77	7.90	7.80	1.17410	41.46273	8.7	0.021218	0.05	4.34	1.05	52.70	5533.5	5270.0	55.3	21909.	0.008798	0.508	0.021218	0.0000000
78	7.80	7.70	1.17410	41.46273	8.7	0.021218	0.05	4.39	1.05	52.70	5533.5	5270.0	55.3	22241.	0.008932	0.508	0.021218	0.0000000
79	7.70	7.60	1.17410	41.46273	8.7	0.021218	0.05	4.44	1.05	52.70	5533.5	5270.0	55.3	22573.	0.009065	0.508	0.021218	0.0000000
80	7.60	7.50	1.17410	41.46273	8.7	0.021218	0.05	4.50	1.05	52.70	5533.5	5270.0	55.3	22905.	0.009198	0.508	0.021218	0.0000000
81	7.50	7.40	1.17410	41.46273	8.7	0.021218	0.05	4.55	1.05	52.70	5533.5	5270.0	55.3	23237.	0.009332	0.508	0.021218	0.0000000
82	7.40	7.30	1.17410	41.46273	8.7	0.021218	0.05	4.61	1.05	52.70	5533.5	5270.0	55.3	23569.	0.009465	0.508	0.021218	0.0000000
83	7.30	7.20	1.17410	41.46273	8.7	0.021218	0.05	4.66	1.05	52.70	5533.5	5270.0	55.3	23901.	0.009598	0.508	0.021218	0.0000000
84	7.20	7.10	1.17410	41.46273	8.7	0.021218	0.05	4.72	1.05	52.70	5533.5	5270.0	55.3	24233.	0.009732	0.508	0.021218	0.0000000
85	7.10	7.00	1.17410	41.46273	8.7	0.021218	0.05	4.77	1.05	52.70	5533.5	5270.0	55.3	24565.	0.009865	0.508	0.021218	0.0000000
86	7.00	6.90	1.17410	41.46273	8.7	0.021218	0.05	4.83	1.05	52.70	5533.5	5270.0	55.3	24897.	0.009998	0.508	0.021218	0.0000000
87	6.90	6.80	1.17410	41.46273	8.7	0.021218	0.05	4.88	1.05	52.70	5533.5	5270.0	55.3	25229.	0.010132	0.508	0.021218	0.0000000
88	6.80	6.70	1.17410	41.46273	8.7	0.021218	0.05	4.94	1.05	52.70	5533.5	5270.0	55.3	25561.	0.010265	0.508	0.021218	0.0000000
89	6.70	6.60	1.17410	41.46273	8.7	0.021218	0.05	4.99	1.05	52.70	5533.5	5270.0	55.3	25893.	0.010398	0.508	0.021218	0.0000000

90	6.60	6.50	1.17410	41.46273	8.7	0.021218	0.05	5.04	1.05	52.70	5533.5	5270.0	55.3	26225.	0.010532	0.508	0.021218	0.0000000
91	6.50	6.40	1.17410	41.46273	8.7	0.021218	0.05	5.10	1.05	52.70	5533.5	5270.0	55.3	26557.	0.010665	0.508	0.021218	0.0000000
92	6.40	6.30	1.17410	41.46273	8.7	0.021218	0.05	5.15	1.05	52.70	5533.5	5270.0	55.3	26889.	0.010798	0.508	0.021218	0.0000000
TOT							1.15				116203.5	110670.0						0.0000000
AVG						0.021218			1.05	52.70			55.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 5 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
72	8.300	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	8.200	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	8.100	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	8.000	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	7.900	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	7.800	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	7.700	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	7.600	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	7.500	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	7.400	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82	7.300	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	7.200	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	7.100	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	7.000	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	6.900	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	6.800	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	6.700	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	6.600	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	6.500	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	6.400	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	6.300	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.18	0.00	0.98	0.98	0.98	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.67	0.12	0.20	0.00	0.00	0.04	0.20	0.00	1.25			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 5 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
72	8.300	16.20	0.09	193.89	13.50	5.25	13.38	3.56	13.38	3.56	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
73	8.200	16.20	0.09	193.89	13.50	5.26	13.21	3.55	13.21	3.55	3.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
74	8.100	16.20	0.09	193.89	13.50	5.26	13.04	3.54	13.04	3.54	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
75	8.000	16.20	0.10	193.89	13.50	5.27	12.87	3.53	12.87	3.53	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
76	7.900	16.20	0.10	193.89	13.50	5.28	12.70	3.52	12.70	3.52	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
77	7.800	16.20	0.10	193.89	13.50	5.29	12.54	3.51	12.54	3.51	3.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
78	7.700	16.20	0.10	193.89	13.50	5.30	12.38	3.49	12.38	3.49	3.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
79	7.600	16.20	0.10	193.89	13.50	5.31	12.22	3.48	12.22	3.48	3.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
80	7.500	16.20	0.10	193.89	13.50	5.32	12.06	3.47	12.06	3.47	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
81	7.400	16.20	0.10	193.89	13.50	5.33	11.91	3.46	11.91	3.46	3.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
82	7.300	16.20	0.11	193.89	13.50	5.34	11.75	3.45	11.75	3.45	3.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
83	7.200	16.20	0.11	193.89	13.50	5.35	11.60	3.44	11.60	3.44	3.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
84	7.100	16.20	0.11	193.89	13.50	5.37	11.46	3.43	11.46	3.43	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
85	7.000	16.20	0.11	193.89	13.50	5.38	11.31	3.42	11.31	3.42	3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
86	6.900	16.20	0.11	193.89	13.50	5.40	11.17	3.41	11.17	3.41	3.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
87	6.800	16.20	0.11	193.89	13.50	5.41	11.03	3.40	11.03	3.40	3.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
88	6.700	16.20	0.11	193.89	13.50	5.42	10.89	3.39	10.89	3.39	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
89	6.600	16.20	0.12	193.89	13.50	5.44	10.75	3.38	10.75	3.38	3.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
90	6.500	16.20	0.12	193.89	13.50	5.45	10.62	3.37	10.62	3.37	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
91	6.400	16.20	0.12	193.89	13.50	5.47	10.49	3.35	10.49	3.35	3.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
92	6.300	16.20	0.12	193.89	13.50	5.49	10.36	3.33	10.36	3.33	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 5 **********

ELEM	ENDING	BANK	SECCHI	PHYT	PHYT	PHYT	PHYT	PHYT	PHYT	PHYT	PHYT	PHYT	PHYT	PERI	PERI	PERI	PERI	PERI	PERI	PERI	PERI	PERI	PERI	PERI

NO.	DIST	SHADE frac	DEPTH m	N PREF	LIT LIM	N LIM	P LIM	N&P LIM	TOT LIM	GROW 1/da	RESP 1/da	DEATH 1/da	SETT 1/da	P/R RATIO	PHYTO µg/L	N PREF	LIT LIM	N LIM	P LIM	N&P LIM	SPC LIM	TOT LIM	GROW 1/da	RESP 1/da	DEATH 1/da	P/R RATIO	PERIP g/m²
72	8.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
73	8.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
74	8.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
75	8.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
76	7.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
77	7.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
78	7.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
79	7.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
80	7.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
81	7.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
82	7.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
83	7.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
84	7.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
85	7.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
86	6.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
87	6.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
88	6.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
89	6.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
90	6.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
91	6.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
92	6.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 6 BLB FROM BLB05 TO RKM 2.5 WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

********** INPUTS FOR REACH 6 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
93	UPR RCH	1.17410	41.46273	16.20	0.12	193.89	13.50	5.49	10.36	3.33	10.36	3.33	3.33	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 6 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
93	6.30	6.20	1.17410	41.46273	8.7	0.021218	0.05	5.21	1.05	52.70	5533.5	5270.0	55.3	27221.	0.010932	0.508	0.021218	0.0000000
94	6.20	6.10	1.17410	41.46273	8.7	0.021218	0.05	5.26	1.05	52.70	5533.5	5270.0	55.3	27553.	0.011065	0.508	0.021218	0.0000000
95	6.10	6.00	1.17410	41.46273	8.7	0.021218	0.05	5.32	1.05	52.70	5533.5	5270.0	55.3	27885.	0.011198	0.508	0.021218	0.0000000
96	6.00	5.90	1.17410	41.46273	8.7	0.021218	0.05	5.37	1.05	52.70	5533.5	5270.0	55.3	28217.	0.011332	0.508	0.021218	0.0000000
97	5.90	5.80	1.17410	41.46273	8.7	0.021218	0.05	5.43	1.05	52.70	5533.5	5270.0	55.3	28549.	0.011465	0.508	0.021218	0.0000000
98	5.80	5.70	1.17410	41.46273	8.7	0.021218	0.05	5.48	1.05	52.70	5533.5	5270.0	55.3	28881.	0.011598	0.508	0.021218	0.0000000
99	5.70	5.60	1.17410	41.46273	8.7	0.021218	0.05	5.54	1.05	52.70	5533.5	5270.0	55.3	29213.	0.011732	0.508	0.021218	0.0000000
100	5.60	5.50	1.17410	41.46273	8.7	0.021218	0.05	5.59	1.05	52.70	5533.5	5270.0	55.3	29545.	0.011865	0.508	0.021218	0.0000000
101	5.50	5.40	1.17410	41.46273	8.7	0.021218	0.05	5.64	1.05	52.70	5533.5	5270.0	55.3	29877.	0.011998	0.508	0.021218	0.0000000
102	5.40	5.30	1.17410	41.46273	8.7	0.021218	0.05	5.70	1.05	52.70	5533.5	5270.0	55.3	30209.	0.012132	0.508	0.021218	0.0000000
103	5.30	5.20	1.17410	41.46273	8.7	0.021218	0.05	5.75	1.05	52.70	5533.5	5270.0	55.3	30541.	0.012265	0.508	0.021218	0.0000000
104	5.20	5.10	1.17410	41.46273	8.7	0.021218	0.05	5.81	1.05	52.70	5533.5	5270.0	55.3	30873.	0.012398	0.508	0.021218	0.0000000
105	5.10	5.00	1.17410	41.46273	8.7	0.021218	0.05	5.86	1.05	52.70	5533.5	5270.0	55.3	31205.	0.012532	0.508	0.021218	0.0000000
106	5.00	4.90	1.17410	41.46273	8.7	0.021218	0.05	5.92	1.05	52.70	5533.5	5270.0	55.3	31537.	0.012665	0.508	0.021218	0.0000000
107	4.90	4.80	1.17410	41.46273	8.7	0.021218	0.05	5.97	1.05	52.70	5533.5	5270.0	55.3	31869.	0.012798	0.508	0.021218	0.0000000
108	4.80	4.70	1.17410	41.46273	8.7	0.021218	0.05	6.03	1.05	52.70	5533.5	5270.0	55.3	32201.	0.012932	0.508	0.021218	0.0000000
109	4.70	4.60	1.17410	41.46273	8.7	0.021218	0.05	6.08	1.05	52.70	5533.5	5270.0	55.3	32533.	0.013065	0.508	0.021218	0.0000000
110	4.60	4.50	1.17410	41.46273	8.7	0.021218	0.05	6.14	1.05	52.70	5533.5	5270.0	55.3	32865.	0.013198	0.508	0.021218	0.0000000
111	4.50	4.40	1.17410	41.46273	8.7	0.021218	0.05	6.19	1.05	52.70	5533.5	5270.0	55.3	33197.	0.013332	0.508	0.021218	0.0000000
112	4.40	4.30	1.17410	41.46273	8.7	0.021218	0.05	6.24	1.05	52.70	5533.5	5270.0	55.3	33529.	0.013465	0.508	0.021218	0.0000000

113	4.30	4.20	1.17410	41.46273	8.7	0.021218	0.05	6.30	1.05	52.70	5533.5	5270.0	55.3	33861.	0.013598	0.508	0.021218	0.0000000
114	4.20	4.10	1.17410	41.46273	8.7	0.021218	0.05	6.35	1.05	52.70	5533.5	5270.0	55.3	34193.	0.013732	0.508	0.021218	0.0000000
115	4.10	4.00	1.17410	41.46273	8.7	0.021218	0.05	6.41	1.05	52.70	5533.5	5270.0	55.3	34525.	0.013865	0.508	0.021218	0.0000000
116	4.00	3.90	1.17410	41.46273	8.7	0.021218	0.05	6.46	1.05	52.70	5533.5	5270.0	55.3	34857.	0.013998	0.508	0.021218	0.0000000
117	3.90	3.80	1.17410	41.46273	8.7	0.021218	0.05	6.52	1.05	52.70	5533.5	5270.0	55.3	35189.	0.014132	0.508	0.021224	0.0000000
118	3.80	3.70	1.17410	41.46273	8.7	0.021218	0.05	6.57	1.05	52.70	5533.5	5270.0	55.3	35521.	0.014265	0.509	0.021244	0.0000000
119	3.70	3.60	1.17410	41.46273	8.7	0.021218	0.05	6.63	1.05	52.70	5533.5	5270.0	55.3	35853.	0.014398	0.510	0.021270	0.0000000
120	3.60	3.50	1.17410	41.46273	8.7	0.021218	0.05	6.68	1.05	52.70	5533.5	5270.0	55.3	36185.	0.014532	0.510	0.021302	0.0000000
121	3.50	3.40	1.17410	41.46273	8.7	0.021218	0.05	6.74	1.05	52.70	5533.5	5270.0	55.3	36517.	0.014665	0.511	0.021338	0.0000000
122	3.40	3.30	1.17410	41.46273	8.7	0.021218	0.05	6.79	1.05	52.70	5533.5	5270.0	55.3	36849.	0.014798	0.512	0.021378	0.0000000
123	3.30	3.20	1.17410	41.46273	8.7	0.021218	0.05	6.84	1.05	52.70	5533.5	5270.0	55.3	37181.	0.014932	0.513	0.021422	0.0000000
124	3.20	3.10	1.17410	41.46273	8.7	0.021218	0.05	6.90	1.05	52.70	5533.5	5270.0	55.3	37513.	0.015065	0.514	0.021469	0.0000000
125	3.10	3.00	1.17410	41.46273	8.7	0.021218	0.05	6.95	1.05	52.70	5533.5	5270.0	55.3	37845.	0.015198	0.515	0.021518	0.0000000
126	3.00	2.90	1.17410	41.46273	8.7	0.021218	0.05	7.01	1.05	52.70	5533.5	5270.0	55.3	38177.	0.015332	0.517	0.021571	0.0000000
127	2.90	2.80	1.17410	41.46273	8.7	0.021218	0.05	7.06	1.05	52.70	5533.5	5270.0	55.3	38509.	0.015465	0.518	0.021625	0.0000000
128	2.80	2.70	1.17410	41.46273	8.7	0.021218	0.05	7.12	1.05	52.70	5533.5	5270.0	55.3	38841.	0.015598	0.519	0.021682	0.0000000
129	2.70	2.60	1.17410	41.46273	8.7	0.021218	0.05	7.17	1.05	52.70	5533.5	5270.0	55.3	39173.	0.015732	0.521	0.021741	0.0000000
130	2.60	2.50	1.17410	41.46273	8.7	0.021218	0.05	7.23	1.05	52.70	5533.5	5270.0	55.3	39505.	0.015865	0.522	0.021802	0.0000000
TOT							2.07				210273.0	200260.0						0.0000000
AVG						0.021218			1.05	52.70			55.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 6 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
93	6.200	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	6.100	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6.000	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5.900	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	5.800	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	5.700	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	5.600	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	5.500	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	5.400	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	5.300	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	5.200	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	5.100	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	5.000	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	4.900	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	4.800	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	4.700	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	4.600	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	4.500	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	4.400	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	4.300	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	4.200	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	4.100	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	4.000	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	3.900	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	3.800	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	3.700	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	3.600	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	3.500	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	3.400	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	3.300	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	3.200	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	3.100	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	3.000	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	2.900	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	2.800	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	2.700	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	2.600	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	2.500	9.82	0.62	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.98	0.98	0.98	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.67 0.12 0.20 0.00 0.00 0.04 0.50 0.00 1.25 0.12 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 6 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
93	6.200	16.20	0.12	193.89	13.50	5.50	10.25	3.27	10.25	3.27	3.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
94	6.100	16.20	0.12	193.89	13.50	5.52	10.14	3.21	10.14	3.21	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
95	6.000	16.20	0.12	193.89	13.50	5.54	10.04	3.15	10.04	3.15	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
96	5.900	16.20	0.12	193.89	13.50	5.55	9.93	3.09	9.93	3.09	3.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
97	5.800	16.20	0.12	193.89	13.50	5.57	9.83	3.04	9.83	3.04	3.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
98	5.700	16.20	0.12	193.89	13.50	5.59	9.73	2.98	9.73	2.98	3.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
99	5.600	16.20	0.12	193.89	13.50	5.61	9.63	2.93	9.63	2.93	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
100	5.500	16.20	0.12	193.89	13.50	5.63	9.53	2.88	9.53	2.88	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
101	5.400	16.20	0.12	193.89	13.50	5.65	9.43	2.83	9.43	2.83	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
102	5.300	16.20	0.13	193.89	13.50	5.66	9.34	2.78	9.34	2.78	2.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
103	5.200	16.20	0.13	193.89	13.50	5.68	9.24	2.73	9.24	2.73	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
104	5.100	16.20	0.13	193.89	13.50	5.70	9.15	2.68	9.15	2.68	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
105	5.000	16.20	0.13	193.89	13.50	5.72	9.06	2.64	9.06	2.64	2.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
106	4.900	16.20	0.13	193.89	13.50	5.74	8.97	2.59	8.97	2.59	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
107	4.800	16.20	0.13	193.89	13.50	5.76	8.88	2.55	8.88	2.55	2.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
108	4.700	16.20	0.13	193.89	13.50	5.78	8.79	2.51	8.79	2.51	2.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
109	4.600	16.20	0.13	193.89	13.50	5.80	8.71	2.47	8.71	2.47	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
110	4.500	16.20	0.13	193.89	13.50	5.82	8.62	2.43	8.62	2.43	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
111	4.400	16.20	0.13	193.89	13.50	5.84	8.54	2.39	8.54	2.39	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
112	4.300	16.20	0.13	193.89	13.50	5.86	8.46	2.35	8.46	2.35	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
113	4.200	16.20	0.13	193.89	13.50	5.88	8.38	2.31	8.38	2.31	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
114	4.100	16.20	0.13	193.89	13.50	5.90	8.30	2.28	8.30	2.28	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
115	4.000	16.20	0.13	193.89	13.50	5.91	8.22	2.24	8.22	2.24	2.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
116	3.900	16.20	0.13	193.89	13.50	5.93	8.14	2.21	8.14	2.21	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
117	3.800	16.20	0.13	193.89	13.50	5.95	8.07	2.17	8.07	2.17	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
118	3.700	16.20	0.13	193.89	13.50	5.97	7.99	2.14	7.99	2.14	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
119	3.600	16.20	0.13	193.89	13.50	5.99	7.92	2.11	7.92	2.11	2.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
120	3.500	16.20	0.13	193.89	13.50	6.01	7.85	2.08	7.85	2.08	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
121	3.400	16.20	0.14	193.89	13.50	6.03	7.78	2.05	7.78	2.05	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
122	3.300	16.20	0.14	193.89	13.50	6.05	7.71	2.02	7.71	2.02	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
123	3.200	16.20	0.14	193.89	13.50	6.07	7.64	1.99	7.64	1.99	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
124	3.100	16.20	0.14	193.89	13.50	6.09	7.57	1.96	7.57	1.96	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
125	3.000	16.20	0.14	193.89	13.50	6.11	7.50	1.94	7.50	1.94	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
126	2.900	16.20	0.14	193.89	13.50	6.13	7.43	1.91	7.43	1.91	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
127	2.800	16.20	0.14	193.89	13.50	6.14	7.37	1.88	7.37	1.88	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
128	2.700	16.20	0.14	193.89	13.50	6.16	7.31	1.86	7.31	1.86	2.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
129	2.600	16.20	0.14	193.89	13.50	6.18	7.24	1.84	7.24	1.84	2.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
130	2.500	16.20	0.14	193.89	13.50	6.20	7.18	1.81	7.18	1.81	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 6 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
93	6.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
94	6.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
95	6.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
96	5.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
97	5.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
98	5.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
99	5.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
100	5.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
101	5.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
102	5.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
103	5.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
104	5.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
105	5.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
106	4.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
107	4.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
108	4.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
109	4.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
110	4.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
111	4.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0

112	4.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
113	4.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
114	4.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
115	4.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
116	3.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
117	3.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
118	3.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
119	3.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
120	3.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
121	3.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
122	3.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
123	3.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
124	3.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
125	3.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
126	2.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
127	2.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
128	2.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
129	2.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
130	2.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 7 BLB FROM RKM 2.5 TO ICWW CONF WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

********** INPUTS FOR REACH 7 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
131	UPR RCH	1.17410	41.46273	16.20	0.14	193.89	13.50	6.20	7.18	1.81	7.18	1.81	2.00	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 7**********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
131	2.50	2.40	1.17410	41.46273	8.7	0.019437	0.06	7.29	1.49	40.54	6040.5	4054.0	60.4	39761.	0.014628	0.642	0.020017	0.0000000
132	2.40	2.30	1.17410	41.46273	8.7	0.019437	0.06	7.35	1.49	40.54	6040.5	4054.0	60.4	40016.	0.014722	0.643	0.020062	0.0000000
133	2.30	2.20	1.17410	41.46273	8.7	0.019437	0.06	7.41	1.49	40.54	6040.5	4054.0	60.4	40272.	0.014816	0.645	0.020108	0.0000000
134	2.20	2.10	1.17410	41.46273	8.7	0.019437	0.06	7.46	1.49	40.54	6040.5	4054.0	60.4	40527.	0.014909	0.646	0.020155	0.0000000
135	2.10	2.00	1.17410	41.46273	8.7	0.019437	0.06	7.52	1.49	40.54	6040.5	4054.0	60.4	40782.	0.015003	0.648	0.020203	0.0000000
136	2.00	1.90	1.17410	41.46273	8.7	0.019437	0.06	7.58	1.49	40.54	6040.5	4054.0	60.4	41038.	0.015097	0.649	0.020252	0.0000000
137	1.90	1.80	1.17410	41.46273	8.7	0.019437	0.06	7.64	1.49	40.54	6040.5	4054.0	60.4	41293.	0.015191	0.651	0.020301	0.0000000
138	1.80	1.70	1.17410	41.46273	8.7	0.019437	0.06	7.70	1.49	40.54	6040.5	4054.0	60.4	41549.	0.015285	0.653	0.020351	0.0000000
139	1.70	1.60	1.17410	41.46273	8.7	0.019437	0.06	7.76	1.49	40.54	6040.5	4054.0	60.4	41804.	0.015379	0.654	0.020402	0.0000000
140	1.60	1.50	1.17410	41.46273	8.7	0.019437	0.06	7.82	1.49	40.54	6040.5	4054.0	60.4	42059.	0.015473	0.656	0.020454	0.0000000
141	1.50	1.40	1.17410	41.46273	8.7	0.019437	0.06	7.88	1.49	40.54	6040.5	4054.0	60.4	42315.	0.015567	0.657	0.020507	0.0000000
142	1.40	1.30	1.17410	41.46273	8.7	0.019437	0.06	7.94	1.49	40.54	6040.5	4054.0	60.4	42570.	0.015661	0.659	0.020560	0.0000000
143	1.30	1.20	1.17410	41.46273	8.7	0.019437	0.06	8.00	1.49	40.54	6040.5	4054.0	60.4	42826.	0.015755	0.661	0.020614	0.0000000
144	1.20	1.10	1.17410	41.46273	8.7	0.019437	0.06	8.06	1.49	40.54	6040.5	4054.0	60.4	43081.	0.015849	0.663	0.020669	0.0000000
145	1.10	1.00	1.17410	41.46273	8.7	0.019437	0.06	8.12	1.49	40.54	6040.5	4054.0	60.4	43336.	0.015943	0.664	0.020724	0.0000000
146	1.00	0.90	1.17410	41.46273	8.7	0.019437	0.06	8.18	1.49	40.54	6040.5	4054.0	60.4	43592.	0.016037	0.666	0.020780	0.0000000
147	0.90	0.80	1.17410	41.46273	8.7	0.019437	0.06	8.24	1.49	40.54	6040.5	4054.0	60.4	43847.	0.016131	0.668	0.020836	0.0000000
148	0.80	0.70	1.17410	41.46273	8.7	0.019437	0.06	8.30	1.49	40.54	6040.5	4054.0	60.4	44103.	0.016225	0.670	0.020893	0.0000000
149	0.70	0.60	1.17410	41.46273	8.7	0.019437	0.06	8.36	1.49	40.54	6040.5	4054.0	60.4	44358.	0.016319	0.672	0.020950	0.0000000
150	0.60	0.50	1.17410	41.46273	8.7	0.019437	0.06	8.42	1.49	40.54	6040.5	4054.0	60.4	44614.	0.016413	0.674	0.021008	0.0000000
151	0.50	0.40	1.17410	41.46273	8.7	0.019437	0.06	8.48	1.49	40.54	6040.5	4054.0	60.4	44869.	0.016507	0.675	0.021067	0.0000000
152	0.40	0.30	1.17410	41.46273	8.7	0.019437	0.06	8.54	1.49	40.54	6040.5	4054.0	60.4	45124.	0.016601	0.677	0.021126	0.0000000
153	0.30	0.20	1.17410	41.46273	8.7	0.019437	0.06	8.60	1.49	40.54	6040.5	4054.0	60.4	45380.	0.016695	0.679	0.021186	0.0000000
154	0.20	0.10	1.17410	41.46273	8.7	0.019437	0.06	8.66	1.49	40.54	6040.5	4054.0	60.4	45635.	0.016789	0.681	0.021246	0.0000000
155	0.10	0.00	1.17410	41.46273	8.7	0.019437	0.06	8.72	1.49	40.54	6040.5	4054.0	60.4	45891.	0.016883	0.683	0.021306	0.0000000

TOT											1.49						151011.5	101350.0										0.0000000
AVG												0.019437				1.49	40.54				60.4							

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 7 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
131	2.400	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	2.300	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	2.200	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	2.100	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	2.000	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	1.900	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	1.800	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	1.700	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	1.600	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	1.500	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	1.400	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	1.300	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	1.200	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	1.100	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	1.000	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	0.900	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.800	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	0.700	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	0.600	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.500	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	0.400	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.300	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.200	9.82	0.43	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	0.100	9.82	0.44	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.000	9.82	0.44	0.10	0.18	0.00	0.00	0.03	0.46	0.00	0.74	0.74	0.74	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.47	0.12	0.20	0.00	0.00	0.04	0.50	0.00	0.94			0.12	0.20	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 7 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
131	2.400	16.20	0.14	193.89	13.50	6.20	7.13	1.80	7.13	1.80	1.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
132	2.300	16.20	0.14	193.89	13.50	6.21	7.09	1.78	7.09	1.78	1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
133	2.200	16.20	0.14	193.89	13.50	6.22	7.04	1.77	7.04	1.77	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
134	2.100	16.20	0.14	193.89	13.50	6.23	7.00	1.75	7.00	1.75	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
135	2.000	16.20	0.14	193.89	13.50	6.24	6.96	1.74	6.96	1.74	1.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
136	1.900	16.20	0.14	193.89	13.50	6.24	6.91	1.73	6.91	1.73	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
137	1.800	16.20	0.14	193.89	13.50	6.25	6.87	1.71	6.87	1.71	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
138	1.700	16.20	0.14	193.89	13.50	6.26	6.83	1.70	6.83	1.70	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
139	1.600	16.20	0.14	193.89	13.50	6.27	6.79	1.69	6.79	1.69	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
140	1.500	16.20	0.14	193.89	13.50	6.28	6.75	1.68	6.75	1.68	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
141	1.400	16.20	0.14	193.89	13.50	6.29	6.71	1.67	6.71	1.67	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
142	1.300	16.20	0.14	193.89	13.50	6.29	6.67	1.66	6.67	1.66	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
143	1.200	16.20	0.13	193.89	13.50	6.30	6.63	1.65	6.63	1.65	1.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
144	1.100	16.20	0.13	193.89	13.50	6.31	6.60	1.63	6.60	1.63	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
145	1.000	16.20	0.13	193.89	13.50	6.32	6.56	1.62	6.56	1.62	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
146	0.900	16.20	0.13	193.89	13.50	6.33	6.52	1.61	6.52	1.61	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
147	0.800	16.20	0.13	193.89	13.50	6.34	6.49	1.61	6.49	1.61	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
148	0.700	16.20	0.13	193.89	13.50	6.35	6.45	1.60	6.45	1.60	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
149	0.600	16.20	0.13	193.90	13.50	6.36	6.42	1.59	6.42	1.59	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
150	0.500	16.20	0.13	193.93	13.51	6.37	6.38	1.58	6.38	1.58	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
151	0.400	16.20	0.13	194.03	13.54	6.37	6.35	1.57	6.35	1.57	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
152	0.300	16.20	0.13	194.44	13.64	6.37	6.31	1.55	6.31	1.55	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
153	0.200	16.20	0.13	196.03	14.03	6.33	6.24	1.51	6.24	1.51	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
154	0.100	16.20	0.13	202.16	15.54	6.13	6.07	1.39	6.07	1.39	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00
155	0.000	16.20	0.13	225.72	21.34	5.32	5.49	0.92	5.49	0.92	2.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 7 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
131	2.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
132	2.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
133	2.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
134	2.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
135	2.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
136	1.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
137	1.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
138	1.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
139	1.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
140	1.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
141	1.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
142	1.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
143	1.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
144	1.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
145	1.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
146	0.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
147	0.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
148	0.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
149	0.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
150	0.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
151	0.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
152	0.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
153	0.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
154	0.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
155	0.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	10.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

REACH SUMMARY REPORT: BAYOU L'EAU BLEU

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT RCH END m3/s	AVG VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT RCH END cfs	AVG VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BLB FROM CC TO BLB01	15.50	14.90	0.60	0.44	1.09340	0.01589	1.220	55.50	38.613	0.052	4.003	182.09
2	BLB01 TO BARGE CANAL	14.90	13.30	1.60	1.14	1.17410	0.01622	1.220	55.50	41.463	0.053	4.003	182.09
3	BARGE CANAL TO RKM 12.0	13.30	12.00	1.30	0.64	1.17410	0.02335	1.270	39.60	41.463	0.077	4.167	129.92
4	BLB FROM RKM 12.0 TO RKM 8.4	12.00	8.40	3.60	1.78	1.17410	0.02335	1.270	39.60	41.463	0.077	4.167	129.92
5	BLB FROM RKM 8.4 TO BLB05	8.40	6.30	2.10	1.15	1.17410	0.02122	1.050	52.70	41.463	0.070	3.445	172.90
6	BLB FROM BLB05 TO RKM 2.5	6.30	2.50	3.80	2.07	1.17410	0.02122	1.050	52.70	41.463	0.070	3.445	172.90
7	BLB FROM RKM 2.5 TO ICWW CONF	2.50	0.00	2.50	1.49	1.17410	0.01944	1.490	40.54	41.463	0.064	4.888	133.01

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

STREAM SUMMARY REPORT: BAYOU L'EAU BLEU

TRAVEL TIME = 8.72 DAYS
MAXIMUM EFFLUENT = 8.67 PERCENT

FLOW = 1.07230 TO 1.17410 m^3/s
DISPERSION = 0.4299 TO 0.6831 m^2/s

```
VELOCITY          =   0.01584 TO    0.02335   m/s
DEPTH             =   1.05    TO    1.49      m
WIDTH             =  39.60    TO   55.50      m

BOD DECAY         =    0.10   TO    0.10      per day
NH3 DECAY         =    0.00   TO    0.00      per day
SOD               =    0.50   TO    1.23      g/m²/d
NH3 SED SOURCE    =    0.00   TO    0.00      g/m²/d
PO4 SED SOURCE    =    0.00   TO    0.00      g/m²/d
REAERATION        =    0.43   TO    0.62      per day
BOD SETTLING      =    0.18   TO    0.37      per day
NBOD DECAY        =    0.09   TO    0.09      per day
NBOD SETTLING     =    0.09   TO    0.18      per day

TEMPERATURE       =   16.20   TO   16.20      deg C
DISSOLVED OXYGEN  =    5.14   TO    6.37      mg/L
```

WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL WINTER 50% NP HW REDUCTION RUN

INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD1	BOD2	NBOD			ORG-P	PO4-P	CHL A	PERIP	NCM	SALIN
	m^3/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d				
HEADWATER FLOW	1.07230	474.35	901.45	210.31	207.53	0.00	0.00	0.00	0.00	0.00		0.00	0.00
INCREMENTAL INFLOW	0.00000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
INCREMENTAL OUTFLOW	0.00000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
WASTELOADS	0.10180	43.98	82.09	20.14	23.28	0.00	0.00	0.00	0.00	0.00		0.00	0.00
WITHDRAWLS	0.00000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
EVAPORATION	0.00000												
FLOW THRU LOWER BNDRY	-1.17410	-539.77	-557.12	-93.18	-208.53	0.00	0.00	0.00	0.00	0.00		0.00	0.00
DISPERSION THRU LOWER BNDRY		-114.87	-77.15	-65.50	34.54	0.00	0.00	0.00	0.00	0.00		0.00	0.00
DISPERSION THRU HDWTR BNDRY		-0.79	13.25	-5.43	-1.10	0.00	0.00	0.00	0.00	0.00		0.00	0.00
NON-POINT INPUT		0.00	2375.01	706.25	521.88	0.00	0.00	0.00	0.00			0.00	
NATURAL REAERATION		1999.63											
DAM REAERATION		0.00											
SOD BACKGROUND		-583.77											
BOD1 DECAY		-949.92	-949.92										
BOD1 SETTLING		0.00	-1787.59										
ANAEROBIC BOD1 DECAY			0.00										
BOD2 DECAY		-82.18		-82.18									
BOD2 SETTLING		0.00		-690.42									
ANAEROBIC BOD2 DECAY				0.00									
BOD2 HYDROLYSIS			0.00	0.00									
NBOD DECAY		-244.59			0.00	0.00							
NBOD SETTLING					0.00	0.00							
NH3-N DECAY (NITRIFICATION)		0.00				0.00	0.00						
NH3-N BACKGROUND SEDIMENT SOURCE						0.00							
DENITRIFICATION			0.00				0.00						
ORG-P HYDROLYSIS								0.00	0.00				
ORG-P SETTLING								0.00	0.00				
PO4-P BACKGROUND SEDIMENT SOURCE									0.00				
PHYTOPLANKTON GROWTH/PHOTOSYNTHESIS		0.00				0.00	0.00		0.00	0.00			
PHYTOPLANKTON RESPIRATION/EXCRETION		0.00				0.00			0.00	0.00			
PHYTOPLANKTON SETTLING		0.00				0.00			0.00	0.00			
PHYTOPLANKTON DEATH			0.00	0.00	0.00			0.00		0.00			
PERIPHYTON GROWTH/PHOTOSYNTHESIS		0.00				0.00	0.00		0.00		0.00		
PERIPHYTON RESPIRATION/EXCRETION		0.00				0.00			0.00		0.00		
PERIPHYTON DEATH			0.00	0.00	0.00			0.00			0.00		
NCM DECAY		0.00										0.00	
NCM SETTLING		0.00										0.00	
TOTAL INPUTS	1.17410	2517.96	3371.80	936.70	787.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL OUTPUTS	-1.17410	-2515.88	-3371.79	-936.70	-209.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NET CONVERGENCE ERROR	-0.00000	2.07	0.01	0.00	577.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

.....EXECUTION COMPLETED

Appendix D4 - Winter Justifications

Bayou L'Eau Bleu 120303 Winter Justification			
DATA TYPE 3 - PROGRAM CONSTANTS			
CONSTANT NAME	VALUE	UNITS	DATA SOURCE
DISPERSION EQUATION	3		Equation used to account for all modes of transport.
TIDE HEIGHT	0.063		Calculated from BLB07 continuous monitor
PERIOD OF TIDAL RISE	13		Calculated from BLB07 continuous monitor
K2 MAXIMUM	25	1/day at 20 deg C	EPA Policy in the absence of a measured value.
HYDRAULIC CALCULATION METHOD	2		The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditions. This method allows the model to predict a more accurate depth and width during low flow conditions.
SETTLING RATE UNITS	2		By making the settling rate a velocity the rate becomes dependent upon the depth.
WIND VELOCITY	0.68		Calculated from Houma Weather Station.
ALGAE OXYGEN PRODUCTION	0		Standard practice for steady state calibration to a wide variation in DO.
KL MINIMUM	0.7	m/day	The minimum KL of 2.3 ft/day converted to 0.70 m/day.
OCEAN EXCHANGE RATION	1		Default value
EFFECTIVE BOD1	0		Set to 0 to override calculation of BOD1
EFFECTIVE BOD2	0		Set to 0 to override calculation of BOD2

Bayou L'Eau Bleu 120303 Winter Justification

DATA TYPE 8 - REACH IDENTIFICATION DATA

Reach	ID	Name	Upstream River Kilometer	Downstream River Kilometer	Element Length, meters	Data Source
1	LB	BLB FROM CC TO BLB01	15.50	14.90	100.0000	ARC MAP Calc.
2	LB	BLB01 TO BARGE CANAL	14.90	13.30	100.0000	ARC MAP Calc.
3	LB	BARGE CANAL TO RKM 12.0	13.30	12.00	100.0000	ARC MAP Calc.
4	LB	BLB FROM RKM 12.0 TO RKM 8.4	12.00	8.40	100.0000	ARC MAP Calc.
5	LB	BLB FROM RKM 8.4 TO BLB05	8.40	6.30	100.0000	ARC MAP Calc.
6	LB	BLB FROM BLB05 TO RKM 2.5	6.30	2.50	100.0000	ARC MAP Calc.
7	LB	BLB FROM RKM 2.5 TO ICWW	2.50	0.00	100.0000	ARC MAP Calc.

Bayou L'Eau Bleu 120303 Winter Justification

		Data Type 9 - Advective Hydraulic Coefficients							
Reach	Name	Width Coeff. "a"	Width Exp. "b"	Width Const. "c"	Data Source	Depth Coeff. "d"	Depth Exp. "e"	Depth Const. "f"	Data Source
1	BLB FROM CC TO BLB01	0	0	55.500	BLB-02	0	0	1.220	BLB-02
2	BLB01 TO BARGE CANAL	0	0	55.500	BLB-02	0	0	1.220	BLB-02
3	BARGE CANAL TO RKM 12.0	0	0	39.600	BLB-04	0	0	1.270	BLB-04
4	BLB FROM RKM 12.0 TO RKM 8.4	0	0	39.600	BLB-04	0	0	1.270	BLB-04
5	BLB FROM RKM 8.4 TO BLB05	0	0	52.700	BLB-05	0	0	1.050	BLB-05
6	BLB FROM BLB05 TO RKM 2.5	0	0	52.700	BLB-05	0	0	1.050	BLB-05
7	BLB FROM RKM 2.5 TO ICWW	0	0	40.540	BLB-07	0	0	1.490	BLB-07

Bayou L'Eau Bleu 120303 Winter Justification							
DATA TYPE 10 - DISPERSIVE HYDRAULIC COEFFICIENTS							
Reach	Tidal Range	Data Source	a	b	c	d	Data Source
1	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
2	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
3	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
4	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
5	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
6	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion
7	1.0	Calibration	23.00	0.8333	0.0	1.0	Constant values used for advective dispersion

Bayou L'Eau Bleu 120303 Winter Justification								
DATA TYPE 11-INITIAL CONDITIONS								
Reach	Name	Temp, deg C	DO, mg/l	Data Source	Sal, ppt	Data Source	Chlorophyll a	Data Source
1	BLB FROM CC TO BLB01	16.20	5.00	90th percentile temperature for WQN 2843 and DO set to standard for subsegment 120303	0.09	INSITU AVG (CC-01 + BLB-01)	10.00	BPJ
2	BLB01 TO BARGE CANAL	16.20	5.00	90th percentile temperature for WQN 2843 and DO set to standard for subsegment 120303	0.09	INSITU BLB-01	10.00	BPJ
3	BARGE CANAL TO RKM 12.0	16.20	5.00	90th percentile temperature for WQN 2843 and DO set to standard for subsegment 120303	0.09	INSITU AVG (BLB-01 + BLB-04)	10.00	BPJ
4	BLB FROM RKM 12.0 TO RKM 8.4	16.20	5.00	90th percentile temperature for WQN 2843 and DO set to standard for subsegment 120303	0.09	INSITU BLB-04	10.00	BPJ
5	BLB FROM RKM 8.4 TO BLB05	16.20	5.00	90th percentile temperature for WQN 2843 and DO set to standard for subsegment 120303	0.09	INSITU BLB-05	10.00	BPJ
6	BLB FROM BLB05 TO RKM 2.5	16.20	5.00	90th percentile temperature for WQN 2843 and DO set to standard for subsegment 120303	0.12	INSITU AVG (BLB-05 + BLB-07)	10.00	BPJ
7	BLB FROM RKM 2.5 TO ICWW	16.20	5.00	90th percentile temperature for WQN 2843 and DO set to standard for subsegment 120303	0.14	INSITU BLB-07	10.00	BPJ

Bayou L'Eau Bleu 120303 Winter Justification						
		DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS				
REACH	**NAME**	**K2 OPT**	**Data Source**	**a**	**BKGRND SOD, gmO2/m2/day at 20 deg C**	**Data Source**
1	BLB FROM CC TO BLB01	11	Texas Equation		1.560	50% Reduction
2	BLB01 TO BARGE CANAL	11	Texas Equation		0.940	50% Reduction
3	BARGE CANAL TO RKM 12.0	11	Texas Equation		0.630	50% Reduction
4	BLB FROM RKM 12.0 TO RKM 8.4	11	Texas Equation		0.630	50% Reduction
5	BLB FROM RKM 8.4 TO BLB05	11	Texas Equation		1.250	50% Reduction
6	BLB FROM BLB05 TO RKM 2.5	11	Texas Equation		1.250	50% Reduction
6	BLB FROM RKM 2.5 TO ICWW	11	Texas Equation		0.940	50% Reduction

Bayou L'Eau Bleu 120303 Winter Justification

DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS

Aerobic BOD1 Dec Rate (1/day)	Data Source	BOD1 SETT RATE (1/day)	Data Source	Aerobic BOD2 Dec Rate (1/day)	Data Source	BOD2 SETT RATE (1/day)	Data Source
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.4	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.5	Calibration
0.1200	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.2	Calibration	0.0370	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.5	Calibration

Bayou L'Eau Bleu 120303 Winter Justification					
DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS					
Reach	**Name**	**NBOD decay rate, 1/day**	**Data Source**	**NBOD settling rate, 1/day**	**Data Source**
1	BLB FROM CC TO BLB01	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
2	BLB01 TO BARGE CANAL	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
3	BARGE CANAL TO RKM 12.0	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
4	BLB FROM RKM 12.0 TO RKM 8.4	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
5	BLB FROM RKM 8.4 TO BLB05	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.10	Calibration
6	BLB FROM BLB05 TO RKM 2.5	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.20	Calibration
7	BLB FROM RKM 2.5 TO ICWW	0.1180	Average decay rate of BLB-01, BLB-04, BLB-05, BLB-07	0.20	Calibration

Bayou L'Eau Bleu 120303 Winter Justification						
DATA TYPE 19 - NONPOINT SOURCES						
Reach	Reach Name	Length of Reach, km	UCBOD1, kg/day	UCBOD2, kg/day	NBOD, kg/day	Data Source
1	BLB FROM CC TO BLB01	0.60	0.00	93.75	31.25	50% Reduction
2	BLB01 TO BARGE CANAL	1.60	812.50	156.25	187.50	50% Reduction
3	BARGE CANAL TO RKM 12.0	1.30	687.50	156.25	218.75	50% Reduction
4	BLB FROM RKM 12.0 TO RKM 8.4	3.60	437.50	50.00	6.25	50% Reduction
5	BLB FROM RKM 8.4 TO BLB05	2.10	62.50	62.50	18.75	50% Reduction
6	BLB FROM BLB05 TO RKM 2.5	3.80	187.50	93.75	12.50	50% Reduction
7	BLB FROM RKM 2.5 TO ICWW	2.50	187.50	93.75	46.88	50% Reduction

Bayou L'Eau Bleu 120303 Winter Justification										
DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES										
Headwater Name	Element No.	Logical Unit Number	Headwater Flow, cms	Data Source	Temp, deg C	Salinity	Conductivity	Chlorides	Headwater Exchange	Data Source
Headwater 1	1	1	1.0723	1/3 Average Tidal Flow	16.2	0.09	193.0	13.40	1.00	Temp set to 90th percentile temp for WQN 2843, Salinity, Conductivity, and chlorides - set to Average CC-01 and CC-02. Bayou L'Eau Bleu has two dispersive boundaries-Company Canal and ICWW

Bayou L'Eau Bleu 120303 Winter Justification					
DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN					
Headwater Name	**Dissolved Oxygen, mg/L**	**UCBOD1, mg/l**	**UCBOD2, mg/l**	**NBOD, mg/l**	**Data Source**
Headwater 1	5.12	9.73	2.27	2.24	DO measurement is the average CC-01 and CC-02 calibration, others are a 50% reduction in loading from calibration.

Bayou L'Eau Bleu 120303 Winter Justification					
DATA TYPES 22 - HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES					
Headwater Name	**Chlorophyll a, ug/L**	**Date Source**			
Headwater 1	10	Best Professional Judgment			

Bayou L'Eau Bleu 120303 Winter Justification								
	DATA TYPES 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES							
Wasteload / Withdrawal Name	**EL #**	**Flow, cms**	**Data Source**	**Temperature, deg C**	**Salinity**	**Conductivity**	**Chlorides**	**Data Source**
Tom Foret Canal	6	0.0211	Assumed flow for Tom Foret Canal to be the average flow for the Lockport STP for the month of June 2004 and July 2004.	16.2	0.13	277.0	18.6	Temperature set to 90th percentile temperature for WQN 2843, all others set to TFC-01
Barge Canal	22	0.0807	The flow was assumed to be 1/3 avearge flow for Barge Canal winter projections.	16.2	0.08	184.0	13.5	Temperature set to 90th percentile temperature for WQN 2843, all others set to CC-02

Bayou L'Eau Bleu 120303 Winter Justification

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

Wasteload / Withdrawal Name	EL #	DO, mg/l	UCBOD1, mg/l	UCBOD2, mg/l	UNBOD, mg/l	Data Source
Tom Foret Canal	6	5.00	4.64	2.29	2.9	DO set to standard for subsegment 120303, other parameters - 50% reduction from calibration
Barge Canal	22	5.00	10.56	2.29	2.58	DO set to standard for subsegment 120303, other parameters - 50% reduction from calibration

Bayou L'Eau Bleu 120303 Winter Justification

DATA TYPES 26 - WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES

Wasteload / Withdrawal Name	EL #	Chl a, ug/L	Data Source	Phosphorus	Coliform	Nonconservatives	Data Source
Tom Foret Canal	6						
Barge Canal	22	10	BPJ				

Bayou L'Eau Bleu 120303 Winter Justification			
DATA TYPES 27 - LOWER BOUNDARY CONDITIONS			
Parameter	**Value**	**Units**	**Data Source**
TEMPERATURE	16.20	^{O}C	90th percentile temp for WQN 2843
SALINITY	0.13	ppt	ICWW-01 Insitu
CHLORIDES	32.5	ppm	ICWW-01 Lab Data
CONDUCTIVITY	271.00	umhos/cm	ICWW-01 Insitu
DISSOLVED OXYGEN	3.71	mg/L	ICWW-01
CBOD1	4.410	mg/L	ICWW-01 Lab Data
CBOD2	0.000	mg/L	ICWW-01 Lab Data
CHLOROPHYLL A	10.0	ug/L	BPJ
NBOD	2.540	mg/L	ICWW-01 Lab Data

Appendix E - Projection Model Development

Appendix E1 – Summer Loading

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

Modeled stream or water body: **BAYOU L'EAU BLEU (SUBSEGMENT 120303)**

Shaded cells are input values for calculations.

Values to be used in the projection models.

Reach Number and Description	Back-ground Benthic Load	Back-ground percentage reduction	Back-ground Benthic Load adjusted for % reduction	Proj. Model Avg. Reach Width	Proj. Temp.	Percentage Reduction of man-made sources	Man-Made Calibration Benthic Load adjusted for % reduction (Reduced CBL)	Total Calibration Benthic Load (TCBL) adjusted for % reduction (Reduced TCBL)	Projection Model Equivalents: Reduced TCBL adjusted for MOS	Projection Model Equivalents: Non-Point UCBOD	Projection Model Equivalents: Non-Point UNBOD	Projection Model Equivalents: SOD @ 20°C	Projected Model Loads: Non-Point UCBOD1 INPUTS	Projected Model Loads: Non-Point UCBOD2 INPUTS	Projected Model Loads: Total Non-Point UCBOD INPUTS	Projected Model Loads: Non-Point UNBOD INPUTS
	gm O_2 / [(m^2)(day)]	%	gm O_2 / [(m^2)(day)]	Meters	(deg Celcius)	%	gm O2 / [(m2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	(kg/day)	(kg/day)	(kg/day)	(kg/day)
	F1	**F2**	**F = F1 x (1-F2)**	**G**	**H**	**I**	**J,** (note 2)	**K = F + J**	**L,** (note 3)	**M = (L)(A / D)**	**N = (L)(B / D)**	**O = (L)(C / D)**	**P1 = (M)(G)(E)(A1/A3)**	**P2 = (M)(G)(E)(A2/A3)**	**P3 = (E)(G)(M)**	**Q3 = (E)(G)(N)**
Bayou L'Eau Bleu Headwaters																
CC - BLB01	0.00	0%	0.00	55.50	30.80	60.0%	3.40	3.40	4.25	2.252	0.751	1.25	0.00	75.00	75.00	25.00
BLB01 - BARGE CANAL	0.00	0%	0.00	55.50	30.80	60.0%	8.93	8.93	11.17	8.727	1.689	0.75	650.00	125.00	775.00	150.00
BARGE CANAL - RKM 12.0	0.00	0%	0.00	39.60	30.80	60.0%	13.61	13.61	17.01	13.112	3.399	0.50	550.00	125.00	675.00	175.00
RKM 12.0 - RKM 8.4	0.00	0%	0.00	39.60	30.80	60.0%	2.62	2.62	3.27	2.736	0.035	0.50	350.00	40.00	390.00	5.00
RKM 8.4 - BLB05	0.00	0%	0.00	52.70	30.80	60.0%	1.63	1.63	2.04	0.904	0.136	1.00	50.00	50.00	100.00	15.00
BLB05 - RKM 2.5	0.00	0%	0.00	52.70	30.80	60.0%	1.74	1.74	2.17	1.124	0.050	1.00	150.00	75.00	225.00	10.00
RKM 2.5 - ICWW	0.00	0%	0.00	40.54	30.80	60.0%	2.67	2.67	3.34	2.220	0.370	0.75	150.00	75.00	225.00	37.50
Sub-Total								34.60					1900.00	565.00	2465.00	417.50

Notes:

Note 1, Data was calculated in and brought from the Calibration worksheet dataset.
Note 2, **J** = [(1 - **I**) x (**D** - **F1**)]
Note 3, **L** = [(**K** - **F**) / (1 - MOS) + **F**]
Note 4, **R** = **E** x **G** x **O** x 1.065 (H-20)
Note 5, **X** = **U** x 1.065 (**H**-20)
Note 6, **AE** = **E** x **G** x AB x 1.065 (H-20)

EXPLICIT MARGIN OF SAFETY:

BAYOU L'EAU BLEU TOTAL ASSIMILATIVE CAPICITY (%) :	20%
UNCERTAINTY	10%
FUTURE GROWTH	10%
BAYOU L'EAU BLEU TOTAL ASSIMILATIVE CAPICITY (%)	20%
UNCERTIANTY	10%
FUTURE GROWTH	10%

Note: Margin of Safety applies only to Man-Made loads, not Background loads.

Summer TMDL Calculations for Point Source loads :

BAYOU L'EAU BLEU (SUBSEGMENT 120303)

Input data into the shaded cells.

Point Source Loading Calculations

Pt. Source / Facility Description and Reach #	Receiving Stream	Included in the Projection Model (Yes/No)	Anticipated/ design flow (cms)	Flow with MOS (cms)	Proposed Permit Limits			UCBOD				UNBOD				Sub-total of Point Source Loads		
					$CBOD_5$ (mg/l)	NH_3N (mg/l)	MOS (%)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	**Loads (kg/day)**	**WLA (kg/day)**	**Reserve/ MOS (kg/day)**
			A	**A1 = A/(1-D)**	**B**	**C**	**D**	**E = 2.3 x B**	**F = (86.4)(A1)(E)**	**G = (1-D) x F**	**H = (D)(F)**	**I = 4.3 x C**	**J = (86.4)(A1)(I)**	**K = (1-D) x J**	**L = (D)(J)**	**F + J**	**G + K**	**H + L**
Town of Lockport	Forty Arpent Canal to Tom Foret Canal into Bayou L'Eau Bleu		0.0394314	0.0492892	10.0	0.0	20%	23.0	98	78	20	0.0	0	0	0	97.9	78.4	19.6
Valetine Prospect	Bayou L'Eau Bleu		0.0001617	0.0002021	30.0	0.0	20%	69.0	1	1	0	0.0	0	0	0	1.2	1.0	0.2
SUB-TOTAL Loads									**99.15**	**79.32**	**19.83**		**0.00**	**0.00**	**0.00**	**99.15**	**79.32**	**19.83**

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

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

BAYOU L'EAU BLEU (SUBSEGMENT 120303)

Shaded cells are input values for calculations.
Values to be used in the projection models.

Headwater / Tributary Load Determinations

	FROM CALIBRATION									BACKGROUND VALUES						PROJECTION VALUES			
Headwater / Tributary Description and Reach #	Seasonal Critical flow (cms)	UCBOD1 (mg/l)	UCBOD2 (mg/l)	Total UCBOD (mg/l)	Total UNBOD (mg/l)	UCBOD1 (kg/day)	UCBOD2 (kg/day)	UCBOD (kg/day)	UNBOD (kg/day)	Background UCBOD1 conc. (mg/l)	Background UCBOD2 conc. (mg/l)	Background UCBOD conc. (mg/l)	Background UNBOD conc. (mg/l)	Background % Reduction	Percent reduction of Man-Made loads	Projection UCBOD1 input conc. (mg/l)	Projection UCBOD2 input conc. (mg/l)	Projection UCBOD input conc. (mg/l)	Projection UNBOD input conc. (mg/l)
	A	**B1**	**B2**	**B3**	**C3=(C1+C2)(4.3)**	**D1=(86.4)(A)(B1)**	**D2=(86.4)(A)(B2)**	**D3 = (86.4)(A)(B3)**	**E3 = (86.4)(A)(C3)**	**F1**	**F2**	**F3**	**G3**	**H**	**K**	**N1/[(A)(86.4)]**	**N2/[(A)(86.4)]**	**N3/[(A)(86.4)]**	**(O3)/[(A)(86.4)]**
Bayou L'Eau Bleu Headwaters																			
BLB Headwater	0.002830	15.56	3.63	19.19	3.58	3.80	0.89	4.69	0.88					0%	60%	7.78	1.82	9.60	1.79
Tom Foret Canal	0.002830	7.43	3.67	11.10	4.64	1.82	0.90	2.71	1.13					0%	60%	3.72	1.84	5.55	2.32
Barge Canal	0.002830	16.89	3.66	20.55	4.13	4.13	0.89	5.02	1.01					0%	60%	8.45	1.83	10.28	2.07
SUB-TOTAL TMDL LOADING								**12.43**	**3.02**										

EXPLICIT MARGIN OF SAFETY:

BAYOU L'EAU BLEU MARGIN OF SAFETY (MOS) (%) =	**20%**
BAYOU L'EAU BLEU MARGIN OF SAFETY (MOS) (%) =	**20%**

Note: Margin of Safety applies only to Man-Made loads, not Background loads.

Appendix E2 – Winter Loading

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

Modeled stream or water body: **BAYOU L'EAU BLEU (SUBSEGMENT 120303)**

Shaded cells are input values for calculations.

Values to be used in the projection models.

										Projection Model Equivalents			Projected Model Loads			
Reach Number and Description	Back-ground Benthic Load	Back-ground percentage reduction	Back-ground Benthic Load adjusted for % reduction	Proj. Model Avg. Reach Width	Proj. Temp.	Percentage Reduction of man-made sources	Man-Made Calibration Benthic Load adjusted for % reduction (Reduced CBL)	Total Calibration Benthic Load (TCBL) adjusted for % reduction (Reduced TCBL)	Reduced TCBL adjusted for MOS	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Non-Point UCBOD1 INPUTS	Non-Point UCBOD2 INPUTS	Total Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS
	gm O_2 / [(m^2)(day)]	%	gm O_2 / [(m^2)(day)]	Meters	(deg Celcius)	%	gm O2 / [(m2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	(kg/day)	(kg/day)	(kg/day)	(kg/day)
	F1	**F2**	**F = F1 x (1-F2)**	**G**	**H**	**I**	**J,** (note 2)	**K = F + J**	**L,** (note 3)	**M = (L)(A / D)**	**N = (L)(B / D)**	**O = (L)(C / D)**	**P1 = (M)(G)(E)(A 1/A3)**	**P2 = (M)(G)(E)(A2/A3)**	**P3 = (E)(G)(M)**	**Q3 = (E)(G)(N)**
Bayou L'Eau Bleu Headwaters																
CC - BLB01	0.00	0%	0.00	55.50	16.20	50.0%	4.25	4.25	5.32	2.815	0.938	1.56	0.00	93.75	93.75	31.25
BLB01 - BARGE CANAL	0.00	0%	0.00	55.50	16.20	50.0%	11.17	11.17	13.96	10.909	2.111	0.94	812.50	156.25	968.75	187.50
BARGE CANAL - RKM 12.0	0.00	0%	0.00	39.60	16.20	50.0%	17.01	17.01	21.26	16.390	4.249	0.63	687.50	156.25	843.75	218.75
RKM 12.0 - RKM 8.4	0.00	0%	0.00	39.60	16.20	50.0%	3.27	3.27	4.09	3.420	0.044	0.63	437.50	50.00	487.50	6.25
RKM 8.4 - BLB05	0.00	0%	0.00	52.70	16.20	50.0%	2.04	2.04	2.55	1.129	0.169	1.25	62.50	62.50	125.00	18.75
BLB05 - RKM 2.5	0.00	0%	0.00	52.70	16.20	50.0%	2.17	2.17	2.72	1.404	0.062	1.25	187.50	93.75	281.25	12.50
RKM 2.5 - ICWW	0.00	0%	0.00	40.54	16.20	50.0%	3.34	3.34	4.18	2.775	0.463	0.94	187.50	93.75	281.25	46.88
Sub-Total								43.25	54.07	38.84	8.04		2375.00	706.25	3081.25	521.88

Notes:

Note 1, Data was calculated in and brought from the Calibration worksheet dataset.

Note 2, **J** = [(1 - **I**) x (**D** - **F1**)]

Note 3, **L** = [(**K** - **F**) / (1 - MOS) + **F**]

Note 4, **R** = **E** x **G** x **O** x $1.065^{(H-20)}$

Note 5, **X** = **U** x $1.065^{(H-20)}$

Note 6, **AE** = **E** x **G** x AB x $1.065^{(H-20)}$

EXPLICIT MARGIN OF SAFETY:

BAYOU L'EAU BLEU MARGIN OF SAFETY (MOS) (% **20%**

BAYOU L'EAU BLEU MARGIN OF SAFETY (MOS) (% **20%**

Note: Margin of Safety applies only to Man-Made loads, not Background loads.

Winter TMDL Calculations for Point Source loads:

BAYOU L'EAU BLEU (SUBSEGMENT 120303)

0

Input data into the shaded cells.

Point Source Loading Calculations

Pt. Source / Facility Description and Reach #	Receiving Stream	Included in the Projection Model (Yes/No)	Anticipated/ design flow (cms)	Flow with MOS (cms)	Proposed Permit Limits			UCBOD				UNBOD				Sub-total of Point Source Loads		
					$CBOD_5$ (mg/l)	NH_3N (mg/l)	MOS (%)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	**Loads (kg/day)**	**WLA (kg/day)**	**Reserve/ MOS (kg/day)**
			A	**A1 = A/(1-D)**	**B**	**C**	**D**	**E = 2.3 x B**	**F = (86.4)(A1)(E)**	**G = (1-D) x F**	**H = (D)(F)**	**I = 4.3 x C**	**J = (86.4)(A1)(I)**	**K = (1-D) x J**	**L = (D)(J)**	**F + J**	**G + K**	**H + L**
Town of Lockport	Forty Arpent Canal to Tom Foret Canal into Bayou L'Eau Bleu		0.0394314	0.0492892	10.0	0.0	20%	23.0	98	78	20	0.0	0	0	0	97.9	78.4	19.6
Valetine Prospect	Bayou L'Eau Bleu		0.0001617	0.0002021	10.0	0.0	20%	23.0	0	0	0	0.0	0	0	0	0.4	0.3	0.1
SUB-TOTAL Loads									**98.35**	**78.68**	**19.67**		**0.00**	**0.00**	**0.00**	**98.35**	**78.68**	**19.67**

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

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

BAYOU L'EAU BLEU (SUBSEGMENT 120303)

Shaded cells are input values for calculations.
Values to be used in the projection models.

Headwater / Tributary Load Determinations

	FROM CALIBRATION									BACKGROUND VALUES						PROJECTION VALUES			
Headwater / Tributary Description and Reach #	Seasonal Critical flow (cms)	UCBOD1 (mg/l)	UCBOD2 (mg/l)	Total UCBOD (mg/l)	Total UNBOD (mg/l)	UCBOD1 (kg/day)	UCBOD2 (kg/day)	UCBOD (kg/day)	UNBOD (kg/day)	Background UCBOD1 conc. (mg/l)	Background UCBOD2 conc. (mg/l)	Background UCBOD conc. (mg/l)	Background UNBOD conc. (mg/l)	Background % Reduction	Percent reduction of Man-Made loads	Projection UCBOD1 input conc. (mg/l)	Projection UCBOD2 input conc. (mg/l)	Projection UCBOD input conc. (mg/l)	Projection UNBOD input conc. (mg/l)
	A	**B1**	**B2**	**B3**	**C3**	**D1=(86.4)(A)(B1)**	**D2=(86.4)(A)(B2)**	**D3 =** (86.4)(**A**)(**B3**)	**E3 =** (86.4)(**A**)(**C3**)	**F1**	**F2**	**F3**	**G3**	**H**	**K**	**N1**/[(**A**)(86.4)]	**N2**/[(**A**)(86.4)]	**N3**/[(**A**)(86.4)]	(**O3**)/[(**A**)(86.4)]
Bayou L'Eau Bleu Headwaters																			
BLB Headwater	0.02800	15.56	3.63	19.19	3.58	37.64	8.78	46.42	8.66					0%	50%	9.73	2.27	11.99	2.24
Tom Foret Canal	0.02800	7.43	3.67	11.10	4.64	17.97	8.88	26.85	11.23					0%	50%	4.64	2.29	6.94	2.90
Barge Canal	0.02800	16.89	3.66	20.55	4.13	40.86	8.85	49.71	9.99					0%	50%	10.56	2.29	12.84	2.58
SUB-TOTAL TMDL LOADING								**122.99**	**29.88**										

EXPLICIT MARGINS:

BAYOU L'EAU BLEU MARGIN OF SAFETY (MOS) (%) =	**20%**
BAYOU L'EAU BLEU MARGIN OF SAFETY (MOS) (%) =	**20%**

Note: Margin of Safety applies only to Man-Made loads, not Background loads.

Appendix F – Survey Data Measurements and Analysis Results

Appendix F1 – Water Quality Data

Bayou L'Eau Bleu 120303 Lab Summary

SITE ID	Date	Chlorides	Sulfate	Hardness	Alkalinity	pH	Specific Conductance	TOC	TP	TDS	Nitrate+Nitrite Nitrogen	TKN	Ammonia-Nitrogen	Color	Turbidity	TSS	Chl A
BLB-01	30-Jun-04	12.9	9.2	81.3	73.8	7.6	203	12.1	0.27	147	ND	2.32	ND	90	34	45	92.2
BLB-04	30-Jun-04	17.2	9.2	80.7	73	7.6	209	13	0.27	151	ND	2.09	0.22	80	23	27	
BLB-05	30-Jun-04	18	9.4	81.1	72.5	7.9	213	12.3	0.27	154	ND	1.84	0.14	90	15	16.5	87.7
BLB-07	30-Jun-04	28.4	26.3	104	77.2	7.7	295	13.9	0.23	203	ND	1.72	0.19	110	12	14.5	
CC-01	30-Jun-04	13.3	10.4	89.7	77.4	7.8	212	13	0.19	154	ND	1.64	ND	110	20	19	
CC02	30-Jun-04		8.8														
CC-02	30-Jun-04	13.5		80.2	72.5	7.8	199	12.5	0.2	147	ND	1.93	ND	110	22	27	108
ICWW-01	30-Jun-04	32.5	12.5	90.7	73.5	7.7	277	9.8	0.18	172	0.46	0.83	0.14	110	28	33.5	
TFC-01	30-Jun-04	18.6	19.6	116	99.4	7.8	278	17.1	0.39	188	0.08	1.51	0.39	90	12	15	
ICWW-02	30-Jun-04	22.2	9.3	81.5	72.7	7.6	234	12.3	0.26	165	0.27	1.26	ND	90	29	34	
FA-01	30-Jun-04	25.8	31.1	180	159	7.9	444	18.6	0.62	320	0.09	1.99	0.95	90	19	24.5	

BLB-01	AG16630	TSS	45.0	ppm
BLB-01	AG16630	TDS	147	ppm
BLB-01	AG16630	Alkalinity	73.8	ppm
BLB-01	AG16630	Turbidity	34	NTU
BLB-01	AG16630	Specific Conductance	203	umhos/cm
BLB-01	AG16630	True Color	90	PCU
BLB-01	AG16630	Chloride, Ion Chromatograph	12.9	ppm
BLB-01	AG16630	Sulfate	9.2	ppm
BLB-01	AG16631	Hardness	81.3	ppm
BLB-01	AG16631	Nitrate+Nitrite Nitrogen	ND	ppm
BLB-01	AG16631	TP	0.27	ppm
BLB-01	AG16631	TKN	2.32	ppm
BLB-01	AG16631	Ammonia-Nitrogen	ND	ppm
BLB-01	AG16632	TOC	12.1	ppm
BLB-01	AG16633	pH, Ultimate BOD survey	7.6	pH units
BLB-01	AG16633	TOC (60 Day BOD)	11.8	ppm
BLB-01	AG16633	TKN (60 Day BOD)	0.57	ppm
BLB-01	AG16633	NO2NO3 - Initial Reading	ND	ppm

BLB-01	AG16633	NO2NO3 - Reading 1	ND	ppm
BLB-01	AG16633	NO2NO3 - Reading 2	ND	ppm
BLB-01	AG16633	NO2NO3 - Reading 3	ND	ppm
BLB-01	AG16633	NO2NO3 - Reading 4	0.09	ppm
BLB-01	AG16633	NO2NO3 - Reading 5	0.31	ppm
BLB-01	AG16633	NO2NO3 - Reading 6	0.50	ppm
BLB-01	AG16633	NO2NO3 - Reading 7	0.57	ppm
BLB-01	AG16633	NO2NO3 - Reading 8	0.65	ppm
BLB-01	AG16633	NO2NO3 - Reading 9	0.83	ppm
BLB-01	AG16633	NO2NO3 - Reading 10	0.81	ppm
BLB-01	AG16633	NO2NO3 - Final	0.83	ppm
BLB-01	AG16633	Non-Filtered BOD 60 - Reading 1	1.0	ppm
BLB-01	AG16633	Non-Filtered BOD 60 - Reading 2	4.4	ppm
BLB-01	AG16633	Non-Filtered BOD 60 - Reading 3	6.4	ppm
BLB-01	AG16633	Non-Filtered BOD 60 - Reading 4	8.9	ppm
BLB-01	AG16633	Non-Filtered BOD 60 - Reading 5	11.9	ppm
BLB-01	AG16633	Non-Filtered BOD 60 - Reading 6	13.8	ppm
BLB-01	AG16633	Non-Filtered BOD 60 - Reading 7	15.4	ppm
BLB-01	AG16633	Non-Filtered BOD 60 - Reading 8	17.2	ppm
BLB-01	AG16633	Non-Filtered BOD 60 - Reading 9	18.9	ppm
BLB-01	AG16633	Non-Filtered BOD 60 - Reading 10	20.0	ppm
BLB-01	AG16633	Non-Filtered BOD 60 - Final	20.9	ppm
BLB-01	AG16634	Chlorophyll A (calculated)	92.2	ug/L
BLB-01	AG16634	Chlorophyll A (raw)	2304	ug/L
BLB-01	AG16634	Volume of sample, Chlorophyll A (raw)	250	ml
BLB-04	AG16635	TSS	27.0	ppm
BLB-04	AG16635	TDS	151	ppm
BLB-04	AG16635	Alkalinity	73.0	ppm
BLB-04	AG16635	Turbidity	23	NTU
BLB-04	AG16635	Specific Conductance	209	umhos/cm
BLB-04	AG16635	True Color	80	PCU
BLB-04	AG16635	Chloride, Ion Chromatograph	17.2	ppm
BLB-04	AG16635	Sulfate	9.2	ppm
BLB-04	AG16636	Hardness	80.7	ppm
BLB-04	AG16636	Nitrate+Nitrite Nitrogen	ND	ppm
BLB-04	AG16636	TP	0.27	ppm

BLB-04	AG16636	TKN	2.09	ppm
BLB-04	AG16636	Ammonia-Nitrogen	0.22	ppm
BLB-04	AG16637	TOC	13.0	ppm
BLB-04	AG16638	pH, Ultimate BOD survey	7.6	pH units
BLB-04	AG16638	TOC (60 Day BOD)	11.8	ppm
BLB-04	AG16638	TKN (60 Day BOD)	0.78	ppm
BLB-04	AG16638	NO2NO3 - Initial Reading	ND	ppm
BLB-04	AG16638	NO2NO3 - Reading 1	ND	ppm
BLB-04	AG16638	NO2NO3 - Reading 2	ND	ppm
BLB-04	AG16638	NO2NO3 - Reading 3	ND	ppm
BLB-04	AG16638	NO2NO3 - Reading 4	0.10	ppm
BLB-04	AG16638	NO2NO3 - Reading 5	0.45	ppm
BLB-04	AG16638	NO2NO3 - Reading 6	0.71	ppm
BLB-04	AG16638	NO2NO3 - Reading 7	0.99	ppm
BLB-04	AG16638	NO2NO3 - Reading 8	0.93	ppm
BLB-04	AG16638	NO2NO3 - Reading 9	1.17	ppm
BLB-04	AG16638	NO2NO3 - Reading 10	1.12	ppm
BLB-04	AG16638	NO2NO3 - Final	1.13	ppm
BLB-04	AG16638	Non-Filtered BOD 60 - Reading 1	1.5	ppm
BLB-04	AG16638	Non-Filtered BOD 60 - Reading 2	5.8	ppm
BLB-04	AG16638	Non-Filtered BOD 60 - Reading 3	8.6	ppm
BLB-04	AG16638	Non-Filtered BOD 60 - Reading 4	11.8	ppm
BLB-04	AG16638	Non-Filtered BOD 60 - Reading 5	15.3	ppm
BLB-04	AG16638	Non-Filtered BOD 60 - Reading 6	18.0	ppm
BLB-04	AG16638	Non-Filtered BOD 60 - Reading 7	20.1	ppm
BLB-04	AG16638	Non-Filtered BOD 60 - Reading 8	22.1	ppm
BLB-04	AG16638	Non-Filtered BOD 60 - Reading 9	23.9	ppm
BLB-04	AG16638	Non-Filtered BOD 60 - Reading 10	25.1	ppm
BLB-04	AG16638	Non-Filtered BOD 60 - Final	26.2	ppm
BLB-05	AG16639	TSS	16.5	ppm
BLB-05	AG16639	TDS	154	ppm
BLB-05	AG16639	Alkalinity	72.5	ppm
BLB-05	AG16639	Turbidity	15	NTU
BLB-05	AG16639	Specific Conductance	213	umhos/cm
BLB-05	AG16639	True Color	90	PCU
BLB-05	AG16639	Chloride, Ion Chromatograph	18.0	ppm

BLB-05	AG16639	Sulfate	9.4	ppm
BLB-05	AG16640	Hardness	81.1	ppm
BLB-05	AG16640	Nitrate+Nitrite Nitrogen	ND	ppm
BLB-05	AG16640	TP	0.27	ppm
BLB-05	AG16640	TKN	1.84	ppm
BLB-05	AG16640	Ammonia-Nitrogen	0.14	ppm
BLB-05	AG16641	TOC	12.3	ppm
BLB-05	AG16642	pH, Ultimate BOD survey	7.9	pH units
BLB-05	AG16642	TOC (60 Day BOD)	12.4	ppm
BLB-05	AG16642	TKN (60 Day BOD)	0.81	ppm
BLB-05	AG16642	NO2NO3 - Initial Reading	ND	ppm
BLB-05	AG16642	NO2NO3 - Reading 1	ND	ppm
BLB-05	AG16642	NO2NO3 - Reading 2	ND	ppm
BLB-05	AG16642	NO2NO3 - Reading 3	ND	ppm
BLB-05	AG16642	NO2NO3 - Reading 4	0.10	ppm
BLB-05	AG16642	NO2NO3 - Reading 5	0.39	ppm
BLB-05	AG16642	NO2NO3 - Reading 6	0.62	ppm
BLB-05	AG16642	NO2NO3 - Reading 7	0.67	ppm
BLB-05	AG16642	NO2NO3 - Reading 8	0.77	ppm
BLB-05	AG16642	NO2NO3 - Reading 9	0.94	ppm
BLB-05	AG16642	NO2NO3 - Reading 10	0.90	ppm
BLB-05	AG16642	NO2NO3 - Final	0.93	ppm
BLB-05	AG16642	Non-Filtered BOD 60 - Reading 1	1.3	ppm
BLB-05	AG16642	Non-Filtered BOD 60 - Reading 2	4.8	ppm
BLB-05	AG16642	Non-Filtered BOD 60 - Reading 3	7.1	ppm
BLB-05	AG16642	Non-Filtered BOD 60 - Reading 4	9.6	ppm
BLB-05	AG16642	Non-Filtered BOD 60 - Reading 5	12.2	ppm
BLB-05	AG16642	Non-Filtered BOD 60 - Reading 6	14.2	ppm
BLB-05	AG16642	Non-Filtered BOD 60 - Reading 7	15.9	ppm
BLB-05	AG16642	Non-Filtered BOD 60 - Reading 8	17.7	ppm
BLB-05	AG16642	Non-Filtered BOD 60 - Reading 9	19.2	ppm
BLB-05	AG16642	Non-Filtered BOD 60 - Reading 10	20.5	ppm
BLB-05	AG16642	Non-Filtered BOD 60 - Final	21.4	ppm
BLB-05	AG16643	Volume of sample, Chlorophyll A (raw)	250	ml
BLB-05	AG16643	Chlorophyll A (calculated)	87.7	ug/L
BLB-05	AG16643	Chlorophyll A (raw)	2192	ug/L

BLB-07	AG16644	TSS	14.5	ppm
BLB-07	AG16644	TDS	203	ppm
BLB-07	AG16644	Alkalinity	77.2	ppm
BLB-07	AG16644	Turbidity	12	NTU
BLB-07	AG16644	Specific Conductance	295	umhos/cm
BLB-07	AG16644	True Color	110	PCU
BLB-07	AG16644	Chloride, Ion Chromatograph	28.4	ppm
BLB-07	AG16644	Sulfate	26.3	ppm
BLB-07	AG16645	Hardness	104	ppm
BLB-07	AG16645	Nitrate+Nitrite Nitrogen	ND	ppm
BLB-07	AG16645	TP	0.23	ppm
BLB-07	AG16645	TKN	1.72	ppm
BLB-07	AG16645	Ammonia-Nitrogen	0.19	ppm
BLB-07	AG16646	TOC	13.9	ppm
BLB-07	AG16647	pH, Ultimate BOD survey	7.7	pH units
BLB-07	AG16647	TOC (60 Day BOD)	13.2	ppm
BLB-07	AG16647	TKN (60 Day BOD)	0.71	ppm
BLB-07	AG16647	NO2NO3 - Initial Reading	ND	ppm
BLB-07	AG16647	NO2NO3 - Reading 1	ND	ppm
BLB-07	AG16647	NO2NO3 - Reading 2	ND	ppm
BLB-07	AG16647	NO2NO3 - Reading 3	ND	ppm
BLB-07	AG16647	NO2NO3 - Reading 4	0.10	ppm
BLB-07	AG16647	NO2NO3 - Reading 5	0.23	ppm
BLB-07	AG16647	NO2NO3 - Reading 6	0.40	ppm
BLB-07	AG16647	NO2NO3 - Reading 7	0.50	ppm
BLB-07	AG16647	NO2NO3 - Reading 8	0.59	ppm
BLB-07	AG16647	NO2NO3 - Reading 9	0.70	ppm
BLB-07	AG16647	NO2NO3 - Reading 10	0.66	ppm
BLB-07	AG16647	NO2NO3 - Final	0.68	ppm
BLB-07	AG16647	Non-Filtered BOD 60 - Reading 1	1.0	ppm
BLB-07	AG16647	Non-Filtered BOD 60 - Reading 2	3.4	ppm
BLB-07	AG16647	Non-Filtered BOD 60 - Reading 3	4.7	ppm
BLB-07	AG16647	Non-Filtered BOD 60 - Reading 4	6.3	ppm
BLB-07	AG16647	Non-Filtered BOD 60 - Reading 5	8.1	ppm
BLB-07	AG16647	Non-Filtered BOD 60 - Reading 6	9.8	ppm
BLB-07	AG16647	Non-Filtered BOD 60 - Reading 7	11.3	ppm

BLB-07	AG16647	Non-Filtered BOD 60 - Reading 8	12.6	ppm
BLB-07	AG16647	Non-Filtered BOD 60 - Reading 9	13.9	ppm
BLB-07	AG16647	Non-Filtered BOD 60 - Reading 10	14.9	ppm
BLB-07	AG16647	Non-Filtered BOD 60 - Final	15.7	ppm
ICWW-02	AG16706	TSS	34.0	ppm
ICWW-02	AG16706	TDS	165	ppm
ICWW-02	AG16706	Alkalinity	72.7	ppm
ICWW-02	AG16706	Turbidity	29	NTU
ICWW-02	AG16706	Specific Conductance	234	umhos/cm
ICWW-02	AG16706	True Color	90	PCU
ICWW-02	AG16706	Chloride, Ion Chromatograph	22.2	ppm
ICWW-02	AG16706	Sulfate	9.3	ppm
ICWW-02	AG16707	Hardness	81.5	ppm
ICWW-02	AG16707	Nitrate+Nitrite Nitrogen	0.27	ppm
ICWW-02	AG16707	TP	0.26	ppm
ICWW-02	AG16707	TKN	1.26	ppm
ICWW-02	AG16707	Ammonia-Nitrogen	ND	ppm
ICWW-02	AG16708	TOC	12.3	ppm
ICWW-02	AG16709	pH, Ultimate BOD survey	7.6	pH units
ICWW-02	AG16709	TOC (60 Day BOD)	9.0	ppm
ICWW-02	AG16709	TKN (60 Day BOD)	0.39	ppm
ICWW-02	AG16709	NO2NO3 - Initial Reading	0.19	ppm
ICWW-02	AG16709	NO2NO3 - Reading 1	0.21	ppm
ICWW-02	AG16709	NO2NO3 - Reading 2	0.27	ppm
ICWW-02	AG16709	NO2NO3 - Reading 3	0.33	ppm
ICWW-02	AG16709	NO2NO3 - Reading 4	0.42	ppm
ICWW-02	AG16709	NO2NO3 - Reading 5	0.48	ppm
ICWW-02	AG16709	NO2NO3 - Reading 6	0.53	ppm
ICWW-02	AG16709	NO2NO3 - Reading 7	0.59	ppm
ICWW-02	AG16709	NO2NO3 - Reading 8	0.65	ppm
ICWW-02	AG16709	NO2NO3 - Reading 9	0.80	ppm
ICWW-02	AG16709	NO2NO3 - Reading 10	0.76	ppm
ICWW-02	AG16709	NO2NO3 - Final	0.78	ppm
ICWW-02	AG16709	Non-Filtered BOD 60 - Reading 1	0.8	ppm
ICWW-02	AG16709	Non-Filtered BOD 60 - Reading 2	3.0	ppm
ICWW-02	AG16709	Non-Filtered BOD 60 - Reading 3	4.4	ppm

ICWW-02	AG16709	Non-Filtered BOD 60 - Reading 4	5.6	ppm
ICWW-02	AG16709	Non-Filtered BOD 60 - Reading 5	6.8	ppm
ICWW-02	AG16709	Non-Filtered BOD 60 - Reading 6	7.7	ppm
ICWW-02	AG16709	Non-Filtered BOD 60 - Reading 7	8.8	ppm
ICWW-02	AG16709	Non-Filtered BOD 60 - Reading 8	9.8	ppm
ICWW-02	AG16709	Non-Filtered BOD 60 - Reading 9	10.9	ppm
ICWW-02	AG16709	Non-Filtered BOD 60 - Reading 10	11.6	ppm
ICWW-02	AG16709	Non-Filtered BOD 60 - Final	12.3	ppm
TFC-01	AG16718	TSS	15.0	ppm
TFC-01	AG16718	TDS	188	ppm
TFC-01	AG16718	Alkalinity	99.4	ppm
TFC-01	AG16718	Turbidity	12	NTU
TFC-01	AG16718	Specific Conductance	278	umhos/cm
TFC-01	AG16718	True Color	90	PCU
TFC-01	AG16718	Chloride, Ion Chromatograph	18.6	ppm
TFC-01	AG16718	Sulfate	19.6	ppm
TFC-01	AG16719	Hardness	116	ppm
TFC-01	AG16719	Nitrate+Nitrite Nitrogen	0.08	ppm
TFC-01	AG16719	TP	0.39	ppm
TFC-01	AG16719	TKN	1.51	ppm
TFC-01	AG16719	Ammonia-Nitrogen	0.39	ppm
TFC-01	AG16720	TOC	17.1	ppm
TFC-01	AG16721	pH, Ultimate BOD survey	7.8	pH units
TFC-01	AG16721	TOC (60 Day BOD)	12.4	ppm
TFC-01	AG16721	TKN (60 Day BOD)	2.02	ppm
TFC-01	AG16721	NO2NO3 - Initial Reading	0.05	ppm
TFC-01	AG16721	NO2NO3 - Reading 1	0.05	ppm
TFC-01	AG16721	NO2NO3 - Reading 2	0.07	ppm
TFC-01	AG16721	NO2NO3 - Reading 3	0.09	ppm
TFC-01	AG16721	NO2NO3 - Reading 4	0.33	ppm
TFC-01	AG16721	NO2NO3 - Reading 5	0.55	ppm
TFC-01	AG16721	NO2NO3 - Reading 6	0.76	ppm
TFC-01	AG16721	NO2NO3 - Reading 7	0.85	ppm
TFC-01	AG16721	NO2NO3 - Reading 8	0.88	ppm
TFC-01	AG16721	NO2NO3 - Reading 9	1.09	ppm
TFC-01	AG16721	NO2NO3 - Reading 10	1.08	ppm

TFC-01	AG16721	NO2NO3 - Final	1.08	ppm
TFC-01	AG16721	Non-Filtered BOD 60 - Reading 1	1.3	ppm
TFC-01	AG16721	Non-Filtered BOD 60 - Reading 2	1.4	ppm
TFC-01	AG16721	Non-Filtered BOD 60 - Reading 3	3.1	ppm
TFC-01	AG16721	Non-Filtered BOD 60 - Reading 4	5.3	ppm
TFC-01	AG16721	Non-Filtered BOD 60 - Reading 5	7.7	ppm
TFC-01	AG16721	Non-Filtered BOD 60 - Reading 6	9.5	ppm
TFC-01	AG16721	Non-Filtered BOD 60 - Reading 7	10.7	ppm
TFC-01	AG16721	Non-Filtered BOD 60 - Reading 8	11.9	ppm
TFC-01	AG16721	Non-Filtered BOD 60 - Reading 9	13.1	ppm
TFC-01	AG16721	Non-Filtered BOD 60 - Reading 10	14.3	ppm
TFC-01	AG16721	Non-Filtered BOD 60 - Final	15.1	ppm
ICWW-01	AG16726	TSS	33.5	ppm
ICWW-01	AG16726	TDS	172	ppm
ICWW-01	AG16726	Alkalinity	73.5	ppm
ICWW-01	AG16726	Turbidity	28	NTU
ICWW-01	AG16726	Specific Conductance	277	umhos/cm
ICWW-01	AG16726	True Color	110	PCU
ICWW-01	AG16726	Chloride, Ion Chromatograph	32.5	ppm
ICWW-01	AG16726	Sulfate	12.5	ppm
ICWW-01	AG16727	Hardness	90.7	ppm
ICWW-01	AG16727	Nitrate+Nitrite Nitrogen	0.46	ppm
ICWW-01	AG16727	TP	0.18	ppm
ICWW-01	AG16727	TKN	0.83	ppm
ICWW-01	AG16727	Ammonia-Nitrogen	0.14	ppm
ICWW-01	AG16728	TOC	9.8	ppm
ICWW-01	AG16729	pH, Ultimate BOD survey	7.7	pH units
ICWW-01	AG16729	TOC (60 Day BOD)	8.3	ppm
ICWW-01	AG16729	TKN (60 Day BOD)	0.48	ppm
ICWW-01	AG16729	NO2NO3 - Initial Reading	0.36	ppm
ICWW-01	AG16729	NO2NO3 - Reading 1	0.39	ppm
ICWW-01	AG16729	NO2NO3 - Reading 2	0.46	ppm
ICWW-01	AG16729	NO2NO3 - Reading 3	0.52	ppm
ICWW-01	AG16729	NO2NO3 - Reading 4	0.58	ppm
ICWW-01	AG16729	NO2NO3 - Reading 5	0.60	ppm
ICWW-01	AG16729	NO2NO3 - Reading 6	0.66	ppm

ICWW-01	AG16729	NO2NO3 - Reading 7	0.72	ppm
ICWW-01	AG16729	NO2NO3 - Reading 8	0.78	ppm
ICWW-01	AG16729	NO2NO3 - Reading 9	0.94	ppm
ICWW-01	AG16729	NO2NO3 - Reading 10	0.87	ppm
ICWW-01	AG16729	NO2NO3 - Final	0.86	ppm
ICWW-01	AG16729	Non-Filtered BOD 60 - Reading 1	0.8	ppm
ICWW-01	AG16729	Non-Filtered BOD 60 - Reading 2	2.6	ppm
ICWW-01	AG16729	Non-Filtered BOD 60 - Reading 3	3.7	ppm
ICWW-01	AG16729	Non-Filtered BOD 60 - Reading 4	4.5	ppm
ICWW-01	AG16729	Non-Filtered BOD 60 - Reading 5	5.0	ppm
ICWW-01	AG16729	Non-Filtered BOD 60 - Reading 6	5.6	ppm
ICWW-01	AG16729	Non-Filtered BOD 60 - Reading 7	6.5	ppm
ICWW-01	AG16729	Non-Filtered BOD 60 - Reading 8	7.5	ppm
ICWW-01	AG16729	Non-Filtered BOD 60 - Reading 9	5.2	ppm
ICWW-01	AG16729	Non-Filtered BOD 60 - Reading 10	5.8	ppm
ICWW-01	AG16729	Non-Filtered BOD 60 - Final	6.4	ppm
Site_Number	Lab_ID	Analysis_Name	Result	Units
FA-01	AG16714	TSS	24.5	ppm
FA-01	AG16714	TDS	320	ppm
FA-01	AG16714	Alkalinity	159	ppm
FA-01	AG16714	Turbidity	19	NTU
FA-01	AG16714	Specific Conductance	444	umhos/cm
FA-01	AG16714	True Color	90	PCU
FA-01	AG16714	Chloride, Ion Chromatograph	25.8	ppm
FA-01	AG16714	Sulfate	31.1	ppm
FA-01	AG16715	Hardness	180	ppm
FA-01	AG16715	Nitrate+Nitrite Nitrogen	0.09	ppm
FA-01	AG16715	TP	0.62	ppm
FA-01	AG16715	TKN	1.99	ppm
FA-01	AG16715	Ammonia-Nitrogen	0.95	ppm
FA-01	AG16716	TOC	18.6	ppm
FA-01	AG16717	pH, Ultimate BOD survey	7.9	pH units
FA-01	AG16717	TOC (60 Day BOD)	12.8	ppm
FA-01	AG16717	TKN (60 Day BOD)	0.86	ppm
FA-01	AG16717	NO2NO3 - Initial Reading	0.05	ppm
FA-01	AG16717	NO2NO3 - Reading 1	0.07	ppm

FA-01	AG16717	NO2NO3 - Reading 2	0.08	ppm
FA-01	AG16717	NO2NO3 - Reading 3	0.07	ppm
FA-01	AG16717	NO2NO3 - Reading 4	0.15	ppm
FA-01	AG16717	NO2NO3 - Reading 5	0.92	ppm
FA-01	AG16717	NO2NO3 - Reading 6	1.23	ppm
FA-01	AG16717	NO2NO3 - Reading 7	1.35	ppm
FA-01	AG16717	NO2NO3 - Reading 8	1.38	ppm
FA-01	AG16717	NO2NO3 - Reading 9	1.64	ppm
FA-01	AG16717	NO2NO3 - Reading 10	1.59	ppm
FA-01	AG16717	NO2NO3 - Final	1.62	ppm
FA-01	AG16717	Non-Filtered BOD 60 - Reading 1	1.1	ppm
FA-01	AG16717	Non-Filtered BOD 60 - Reading 2	3.9	ppm
FA-01	AG16717	Non-Filtered BOD 60 - Reading 3	5.1	ppm
FA-01	AG16717	Non-Filtered BOD 60 - Reading 4	6.6	ppm
FA-01	AG16717	Non-Filtered BOD 60 - Reading 5	11.3	ppm
FA-01	AG16717	Non-Filtered BOD 60 - Reading 6	14.0	ppm
FA-01	AG16717	Non-Filtered BOD 60 - Reading 7	15.5	ppm
FA-01	AG16717	Non-Filtered BOD 60 - Reading 8	16.7	ppm
FA-01	AG16717	Non-Filtered BOD 60 - Reading 9	17.8	ppm
FA-01	AG16717	Non-Filtered BOD 60 - Reading 10	18.6	ppm
FA-01	AG16717	Non-Filtered BOD 60 - Final	19.3	ppm

Appendix F2 – Cross Sections and Discharge Measurements

Bayou L'Eau Bleu 120303

Field Data Summary -- Discharges and Cross Sections

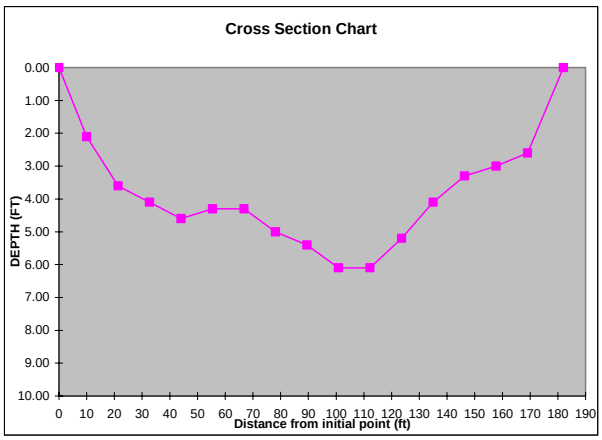
Site #	Width (ft)	Width (m)	Depth (ft)	Depth (m)	Flow (cfs)	Flow (cms)
TFC-01	74.00	22.56	6.21	1.89		
TFC-02	204.00	62.18	5.72	1.74		
CC-02	292.00	89.00	5.09	1.55		
BLB-02	182.00	55.47	3.99	1.22		
BLB-03	137.00	41.76	3.00	0.91		
BLB-04	130.00	39.62	4.16	1.27		
BLB-05	173.00	52.73	3.43	1.05		
Dye Study						3.4800
BLB-07	133.00	40.54	4.88	1.49		3.8790

STREAM CROSS-SECTION SPREADSHEET

Site Number: BLB02 **Subsegment:** 120303 **Waterbody:** Bayou L'eau Bleu
Site Description: midway b/w Tom Foret & unnamed canal from Company Canal
Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual
Initial Bank: ☐ RDB ☑ LDB
Tapedown:
Guage Height:
Date: 6/29/2004

WIDTH[1] (ft):	182.00
AREA[2] (ft[2]):	725.42
AVG. DEPTH[3](ft):	3.99

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	5.00	0.00	0.00	
2	10.0	10.68	2.10	22.43	3.09%
3	21.4	11.36	3.60	40.90	5.64%
4	32.7	11.36	4.10	46.58	6.42%
5	44.1	11.36	4.60	52.26	7.20%
6	55.4	11.36	4.30	48.85	6.73%
7	66.8	11.36	4.30	48.85	6.73%
8	78.2	11.36	5.00	56.80	7.83%
9	89.5	11.36	5.40	61.34	8.46%
10	100.9	11.36	6.10	69.30	9.55%
11	112.2	11.36	6.10	69.30	9.55%
12	123.6	11.36	5.20	59.07	8.14%
13	135.0	11.36	4.10	46.58	6.42%
14	146.3	11.36	3.30	37.49	5.17%
15	157.7	11.36	3.00	34.08	4.70%
16	169.0	12.16	2.60	31.62	4.36%
17	182.0	6.48	0.00	0.00	0.00%
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	182.00		725.42	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Savant	Data Inputed by / Date:	LaFleur 7/6/04
Notetaker/Recorder:	LaFleur	Data Input Checked by / Date:	
Other:			

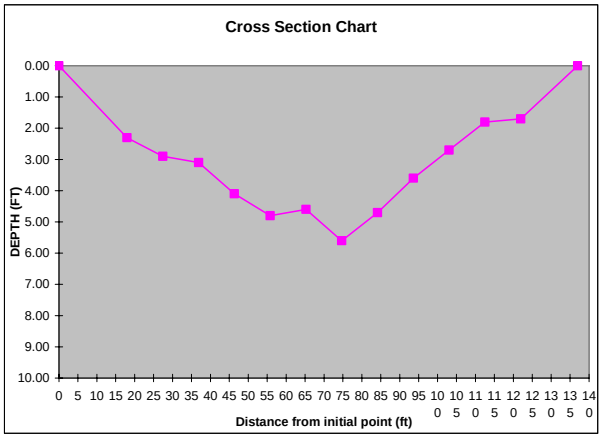
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: BLB03 **Subsegment:** 120303 **Waterbody:** Unnamed Canal
Site Description: midway b/w Company Canal & Bayou L'eau Bleu
Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual
Initial Bank: ☑ RDB ☐ LDB
Tapedown:
Guage Height:
Date: 6/29/2004

WIDTH[1] (ft):	137.00
AREA[2] (ft[2]):	410.55
AVG. DEPTH[3](ft):	3.00

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	9.00	0.00	0.00	
2	18.0	13.73	2.30	31.57	7.69%
3	27.5	9.45	2.90	27.41	6.68%
4	36.9	9.45	3.10	29.30	7.14%
5	46.4	9.45	4.10	38.75	9.44%
6	55.8	9.45	4.80	45.36	11.05%
7	65.3	9.45	4.60	43.47	10.59%
8	74.7	9.45	5.60	52.92	12.89%
9	84.2	9.45	4.70	44.42	10.82%
10	93.6	9.45	3.60	34.02	8.29%
11	103.1	9.45	2.70	25.52	6.21%
12	112.5	9.45	1.80	17.01	4.14%
13	122.0	12.25	1.70	20.83	5.07%
14	137.0	7.53	0.00	0.00	0.00%
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	137.00		410.55	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Savant	Data Inputed by / Date:	LaFleur 7/6/04
Notetaker/Recorder:	LaFleur	Data Input Checked by / Date:	
Other:			

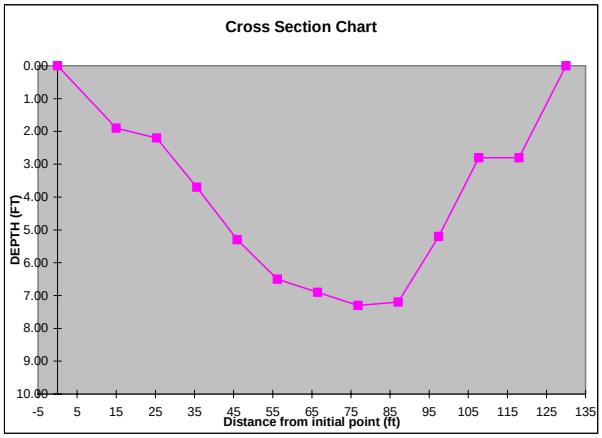
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: BLB04 **Subsegment:** 120303 **Waterbody:** Bayou L'eau Bleu
Site Description: approximately 0.3 mi below old oil field canal
Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual
Initial Bank: ☐ RDB ☑ LDB
Tapedown:
Guage Height:
Date: 6/29/2004

WIDTH[1] (ft):	130.00
AREA[2] (ft[2]):	540.39
AVG. DEPTH[3](ft):	4.16

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	7.50	0.00	0.00	
2	15.0	12.65	1.90	24.04	4.45%
3	25.3	10.30	2.20	22.66	4.19%
4	35.6	10.30	3.70	38.11	7.05%
5	45.9	10.30	5.30	54.59	10.10%
6	56.2	10.30	6.50	66.95	12.39%
7	66.5	10.30	6.90	71.07	13.15%
8	76.8	10.30	7.30	75.19	13.91%
9	87.1	10.30	7.20	74.16	13.72%
10	97.4	10.30	5.20	53.56	9.91%
11	107.7	10.30	2.80	28.84	5.34%
12	118.0	11.15	2.80	31.22	5.78%
13	130.0	6.00	0.00	0.00	0.00%
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	130.00		540.39	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Savant	Data Inputed by / Date:	LaFleur 7/6/04
Notetaker/Recorder:	LaFleur	Data Input Checked by / Date:	
Other:			

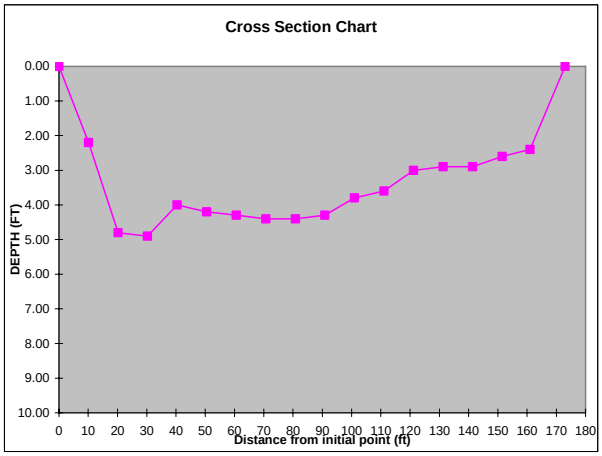
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: BLB 05 **Subsegment:** 120303 **Waterbody:** Bayou L'eau Bleu
Site Description: Approx. 0.7 miles below WQ site 931
Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual
Initial Bank: ☐ RDB ☑ LDB
Tapedown:
Guage Height:
Date: 6/29/2004

WIDTH[1] (ft):	173.00
AREA[2] (ft[2]):	593.65
AVG. DEPTH[3](ft):	3.43

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	5.05	0.00	0.00	
2	10.1	10.10	2.20	22.22	3.74%
3	20.2	10.10	4.80	48.48	8.17%
4	30.3	10.10	4.90	49.49	8.34%
5	40.4	10.10	4.00	40.40	6.81%
6	50.5	10.10	4.20	42.42	7.15%
7	60.6	10.10	4.30	43.43	7.32%
8	70.7	10.10	4.40	44.44	7.49%
9	80.8	10.10	4.40	44.44	7.49%
10	90.9	10.10	4.30	43.43	7.32%
11	101.0	10.10	3.80	38.38	6.47%
12	111.1	10.10	3.60	36.36	6.12%
13	121.2	10.10	3.00	30.30	5.10%
14	131.3	10.10	2.90	29.29	4.93%
15	141.4	10.10	2.90	29.29	4.93%
16	151.5	9.80	2.60	25.48	4.29%
17	161.0	10.75	2.40	25.80	4.35%
18	173.0	6.00	0.00	0.00	0.00%
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	173.00		593.65	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Savant	Data Inputed by / Date:	Savant 7/8/04
Notetaker/Recorder:	LaFleur	Data Input Checked by / Date:	
Other:			

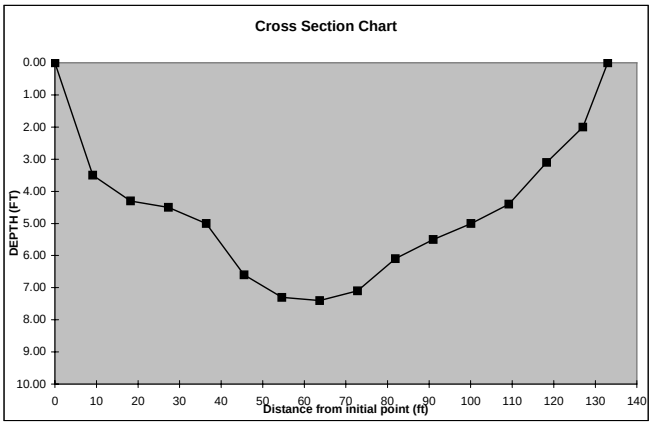
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: BLB 07 **Subsegment:** 120303 **Waterbody:** Bayou L'eau Bleu
Site Description: Approx. 0.5 miles above ICWW
Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual
Initial Bank: ☐ RDB ☑ LDB
Tapedown:
Guage Height:
Date: 6/29/2004

WIDTH[1] (ft):	133.00
AREA[2] (ft[2]):	649.26
AVG. DEPTH[3] (ft):	4.88

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	4.55	0.00	0.00	
2	9.1	9.10	3.50	31.85	4.91%
3	18.2	9.10	4.30	39.13	6.03%
4	27.3	9.10	4.50	40.95	6.31%
5	36.4	9.10	5.00	45.50	7.01%
6	45.5	9.10	6.60	60.06	9.25%
7	54.6	9.10	7.30	66.43	10.23%
8	63.7	9.10	7.40	67.34	10.37%
9	72.8	9.10	7.10	64.61	9.95%
10	81.9	9.10	6.10	55.51	8.55%
11	91.0	9.10	5.50	50.05	7.71%
12	100.1	9.10	5.00	45.50	7.01%
13	109.2	9.10	4.40	40.04	6.17%
14	118.3	8.90	3.10	27.59	4.25%
15	127.0	7.35	2.00	14.70	2.26%
16	133.0	3.00	0.00	0.00	0.00%
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	133.00		649.26	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Savant	Data Inputed by / Date:	Savant 7/8/04
Notetaker/Recorder:	LaFleur	Data Input Checked by / Date:	
Other:			

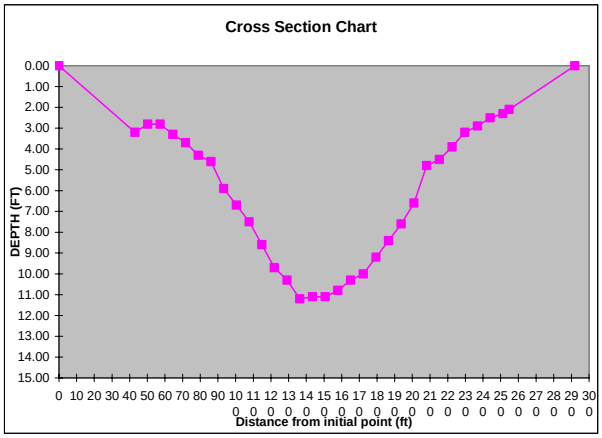
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: CC-02 **Subsegment:** 120302 **Waterbody:** Company Canal
Site Description: Approx. midway b/t Bayou L'Eau Bleu & Lake Long inlet
Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual
Initial Bank: ☑ RDB ☐ LDB
Tapedown: N/A
Guage Height: N/A
Date: 6/29/2004

WIDTH[1] (ft):	292.00
AREA[2] (ft[2]):	1487.46
AVG. DEPTH[3](ft):	5.09

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	21.50	0.00	0.00	
2	43.0	25.09	3.20	80.29	5.40%
3	50.2	7.18	2.80	20.10	1.35%
4	57.4	7.18	2.80	20.10	1.35%
5	64.5	7.18	3.30	23.69	1.59%
6	71.7	7.18	3.70	26.57	1.79%
7	78.9	7.18	4.30	30.87	2.08%
8	86.1	7.18	4.60	33.03	2.22%
9	93.3	7.18	5.90	42.36	2.85%
10	100.4	7.18	6.70	48.11	3.23%
11	107.6	7.18	7.50	53.85	3.62%
12	114.8	7.18	8.60	61.75	4.15%
13	122.0	7.18	9.70	69.65	4.68%
14	129.2	7.18	10.30	73.95	4.97%
15	136.3	7.18	11.20	80.42	5.41%
16	143.5	7.18	11.10	79.70	5.36%
17	150.7	7.18	11.10	79.70	5.36%
18	157.9	7.18	10.80	77.54	5.21%
19	165.1	7.18	10.30	73.95	4.97%
20	172.2	7.18	10.00	71.80	4.83%
21	179.4	7.18	9.20	66.06	4.44%
22	186.6	7.18	8.40	60.31	4.05%
23	193.8	7.18	7.60	54.57	3.67%
24	201.0	7.18	6.60	47.39	3.19%
25	208.1	7.18	4.80	34.46	2.32%
26	215.3	7.18	4.50	32.31	2.17%
27	222.5	7.18	3.90	28.00	1.88%
28	229.7	7.18	3.20	22.98	1.54%
29	236.9	7.18	2.90	20.82	1.40%
30	244.0	7.18	2.50	17.95	1.21%
31	251.2	5.38	2.30	12.36	0.83%
32	254.8	20.39	2.10	42.82	2.88%
33	292.0	18.61	0.00	0.00	0.00%
34					
35					
36					
37					
38					
39					
40					
	Total	292.00		1487.46	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	J. Earles	Data Inputed by / Date:	C. Schwartzenburg / 7-9-04
Notetaker/Recorder:	C. Schwartzenburg	Data Input Checked by / Date:	J. Earles / 7-9-04
Other:			

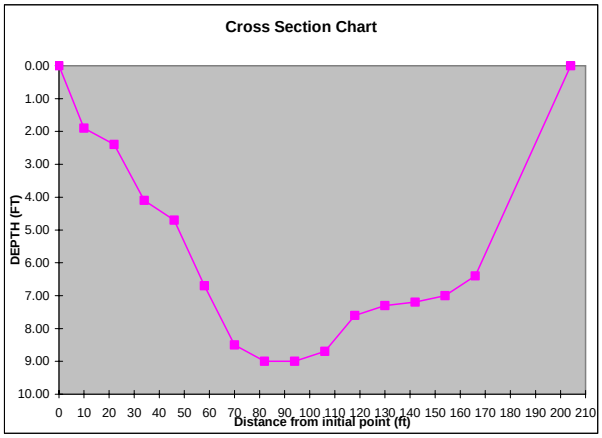
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: TFC02 **Subsegment:** 120303 **Waterbody:** Tom Foret Canal
Site Description: approx. 0.2 mi above Bayou L'eau Bleu
Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual
Initial Bank: ☐ RDB ☑ LDB
Tapedown:
Guage Height:
Date: 6/29/2004

WIDTH[1] (ft):	204.00
AREA[2] (ft[2]):	1167.30
AVG. DEPTH[3](ft):	5.72

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	5.00	0.00	0.00	
2	10.0	11.00	1.90	20.90	1.79%
3	22.0	12.00	2.40	28.80	2.47%
4	34.0	12.00	4.10	49.20	4.21%
5	46.0	12.00	4.70	56.40	4.83%
6	58.0	12.00	6.70	80.40	6.89%
7	70.0	12.00	8.50	102.00	8.74%
8	82.0	12.00	9.00	108.00	9.25%
9	94.0	12.00	9.00	108.00	9.25%
10	106.0	12.00	8.70	104.40	8.94%
11	118.0	12.00	7.60	91.20	7.81%
12	130.0	12.00	7.30	87.60	7.50%
13	142.0	12.00	7.20	86.40	7.40%
14	154.0	12.00	7.00	84.00	7.20%
15	166.0	25.00	6.40	160.00	13.71%
16	204.0	19.00	0.00	0.00	0.00%
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	204.00		1167.30	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Savant	Data Inputed by / Date:	LaFleur 7/6/04
Notetaker/Recorder:	LaFleur	Data Input Checked by / Date:	
Other:			

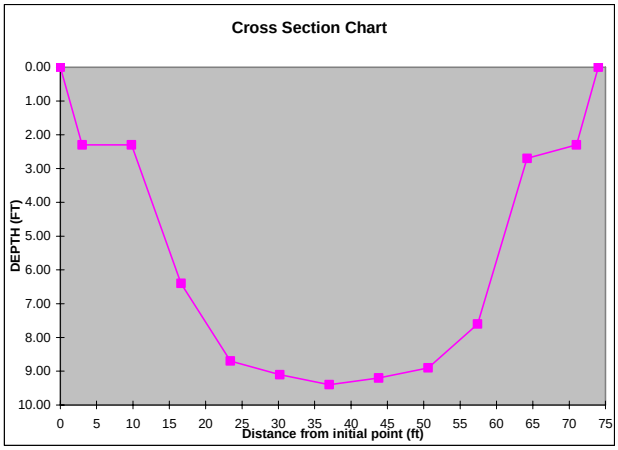
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: TFC 01 **Subsegment:** 120303 **Waterbody:** Tom Foret Canal
Site Description: Approx. 0.3 miles from Al Robichaux pump station
Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual
Initial Bank: ☐ RDB ☑ LDB
Tapedown:
Guage Height:
Date: 6/29/2004

WIDTH[1] (ft):	74.00
AREA[2] (ft[2]):	459.78
AVG. DEPTH[3](ft):	6.21

Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
0.0	1.50	0.00	0.00	
3.0	4.90	2.30	11.27	2.45%
9.8	6.80	2.30	15.64	3.40%
16.6	6.80	6.40	43.52	9.47%
23.4	6.80	8.70	59.16	12.87%
30.2	6.80	9.10	61.88	13.46%
37.0	6.80	9.40	63.92	13.90%
43.8	6.80	9.20	62.56	13.61%
50.6	6.80	8.90	60.52	13.16%
57.4	6.80	7.60	51.68	11.24%
64.2	6.80	2.70	18.36	3.99%
71.0	4.90	2.30	11.27	2.45%
74.0	1.50	0.00	0.00	0.00%
Total	74.00		459.78	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Savant	Data Inputed by / Date:	Savant 7/8/04
Notetaker/Recorder:	LaFleur	Data Input Checked by / Date:	
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

Bayou L'Eau Bleu % Flow Calculations						
Flow for Lockport - Tom Foret Canal						
mgd	cms					
0.479	0.0201					
L'Eau Bleu						
width (m)	depth (m)	length (m)		Volume (m^3)		% Load
47.1	1.25	15.5		912.56		93
Barge Canal						
width (m)	depth (m)	length (m)		Volume (m3)		% Load
41.8	0.91	1.78		67.71		7

Bayou L'Eau Bleu 120303			
Calibration Flow Input Values			
SITE	**Calculation**	**Q (CMS)**	**Waterbody**
Headwater	93% * [Flow calculated from dye study - Tom Foret Canal flow]	3.2168	Bayou L'Eau Bleu
Tributary	Lockport average flow for June and July 2004	0.0211	Tom Foret Canal
Tributary	7% * [Flow calculated from dye study - Tom Foret Canal flow]	0.2421	Barge Canal

*****Dye
Study Flow **123 cfs = 3.48 cms**

LOCKPORT POTW DATA				
Permit limitations		**Design capacity (mgd)**	**Anticipated population based flow (mgd)**	
CBOD5 (mg/l)	**NH3-N (mg/l)**			
10 1/wk	report 1/quarter	0.90	0.36	
DMR data				
Year	month	CBOD (mg/l)	NH3-N (mg/l)	Flow (mgd)
2004	May	1.25		0.563
2004	Jun	2.40		0.479
2004	Jul	1.50		0.484
2004	Aug	2.40		0.393
2004	Oct	1.75		0.480
2006	Jan	6.25	0.71	0.385
2006	Feb	5.00		0.488
2006	Mar	4.00		0.259
2006	Apr	2.00		0.222
2006	May	2.60		0.231
2006	June	3.50		0.234
2006	July	3.00		0.340
2006	August	2.00		0.397
2006	Sep	4.25		0.467
2006	October	2.00		0.385
2006	Nov	2.75		0.365
Average flow for June & July 2004				0.482
Average flow for January through November 2006				0.343
		0.482 mgd = 0.02111 cms		

File Name	Start Time	Total Q [ft³/s]	Start Bank	Left Dist. [ft]	Left Q [ft³/s]	Top Q [ft³/s]	Meas. Q [ft³/s]	Bottom Q [ft³/s]	Right Dist. [ft]	Right Q [ft³/s]
BLB07000r.000	11:16:24	115.313	Right	45	-3.75	28.995	79.695	6.213	35	4.16
BLB07002r.000	11:24:12	126.398	Right	45	2.259	29.141	81.036	6.453	35	7.509
BLB07003r.000	11:30:21	147.679	Left	45	0.499	33.087	92.057	7.155	35	14.881
BLB07004r.000	11:34:59	160.146	Right	35	18.146	35.569	86.864	7.173	35	12.394
Average		137.384			4.289	31.698	84.913	6.748		9.736
Std. Dev.		20.264			9.577	3.202	5.689	0.49		4.816
Std./| Avg.|		0.15			2.23	0.1	0.07	0.07		0.49

File Name	Total Area [ft²]	Width [ft]	Q/Area [ft/s]	Flow Spee [ft/s]	Flow Dir. [°]	Left Vel. [ft/s]	Left Depth [ft]	Left Area [ft²]	Right Vel. [ft/s]	Right Deptl [ft]	Right Area [ft²]
BLB07000r.000	657.78	156.92	0.175	0.254	107.85	-0.06	3.95	88.86	0.056	5.97	104.49
BLB07002r.000	661.86	158.07	0.191	0.244	122.14	0.035	4.01	90.13	0.106	5.71	99.84
BLB07003r.000	634.71	154.22	0.233	0.264	107.24	0.008	3.88	87.32	0.205	5.87	102.69
BLB07004r.000	615.32	144.15	0.26	0.279	109.97	0.369	3.97	69.47	0.172	5.83	101.97
Average	642.42	153.34	0.215	0.26		0.088	3.95	83.94	0.135	5.84	102.25
Std. Dev.	21.66	6.34	0.039	0.015		0.192	0.05	9.72	0.067	0.11	1.92
Std./| Avg.|	0.03	0.04	0.18	0.06		2.17	0.01	0.12	0.49	0.02	0.02

Estimate Only

Appendix F3 – Field Notes

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

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

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

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

Bayou L'Eau Bleu 120303 Insitu Data										
SITE NO.	Sample date	Sample time	Sample depth (m)	Temp ^{O}C	SpCond (uS/cm)	pH	DO (mg/l)	Secchi Disk (in)	Salinity (ppt)	Secchi Disk (m)
CC-01	6/30/04	11:30	1	29.0	202	7.36	5.37	18	0.09	0.46
CC-02	6/30/04	11:45	1	28.7	184	7.57	4.87	12	0.08	0.30
FA-01	6/30/04	13:20	1	27.3	547	6.97	1.60	--	0.28	
TFC-01	6/30/04	12:50	1	29.0	277	7.08	2.91	--	0.13	
TFC-02	6/30/04	11:10	1	29.0	271	6.96	3.71	--	0.13	
BLB-01	6/30/04	12:30	1	28.5	191	7.42	4.44	18	0.09	0.46
BLB-04	6/30/04	12:00	1	29.0	200	7.17	2.83	--	0.09	
BLB-05	6/30/04	10:10	1	28.9	202	6.74	1.91	18	0.09	0.46
BLB-07	6/30/04	10:45	1	28.9	285	6.87	1.96	--	0.14	
ICWW-01	6/30/04	11:10	1	29.0	271	6.96	3.71	--	0.13	
ICWW-02	6/30/04	9:30	1	27.9	209	6.98	1.43	14	0.10	0.36
AVG CC				28.8	193	7.47	5.12	15	0.09	0.38

Site Information

Site #: BLB-01 Subsegment: 120303 Date: 6/29/04 Time: 0955

Waterbody: Bayou L'eau Bleu Tapedown 1: Staff Gauge 1:

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

Site Location: At junction of Tom Foret Canal

Personnel: LaFleur, Savant

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☒ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☒ Continuous Monitor S/N: 40806

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1 meter

Continuous Monitor Location: At site

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BLB-01 120303 6/29/04 09:55

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: BLB-01 Subsegment: 120303 Date: 6/30/04 Time: 1230 hrs.

Waterbody: Bayou L'eau Bleu Tapedown 1: Staff Gauge 1:

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

Site Location: At junction of Tom Tiret Canal

Personnel: Savant, LaFleur

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☒ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒

Wind Influence: ☒ Wind Influence Direction: Upstream ☒ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ Water Quality Field Parameters: ☒ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): _____

Continuous Monitor Location: _____

Water Quality Field Parameters

Time: 1230 Temp.(°C): 28.54 pH: 7.42 Spcond(µhmos/cm): 190.6

D.O.: 4.44 D.O. %: 57.8 Salinity: 0.09 Depth (m): 1m Secchi (in): 18

Flow Measurement: ☐ Measurement Location: _____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: _____

Flow Estimated: ☐ Measurement Location: _____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): _____ Time (s): _____

Mid Stream: Distance (ft): _____ Time (s): _____

Left Descending Bank: Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Measurement Location: _____

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: _____

GPS Measurement: ☐ GPS SSF File Name: _____

Site GPS: ☐ Cross Section GPS: ☐

Comments: _____

BLB-01 6/30/04 120303 12:30HRS

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:	Temp.(°C):	pH:	Spcond(µhmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(°C):	pH:	Spcond(µhmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(°C):	pH:	Spcond(µhmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: 39896 Surveyor 4a S/N: 51969 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: BLB-01 Subsegment: 120303 Date: 7/16/04 Time: 1205

Waterbody: Bayou L'eau Bleu Tapedown 1: Staff Gauge 1:

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

Site Location: @ Tom Foret Canal

Personnel: Boffy, Savant, Schwartz

Type of Work: Recon ☐ Data Collection ☑

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

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☑ Wind Influence Direction: Upstream ☑ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 70806

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: **Temp.(°C):** **pH:** **Spcond(µhmos/cm):**

D.O.: **D.O. %:** **Salinity:** **Depth (m):** **Secchi (in):**

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

Photos Taken: ☐ Picture File #s: BLB-01 120303 7/6/04 12:05

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0

Site Information

Site #: BLB-02 Subsegment: 120303 Date: 6/29/04 Time: 1410 hrs.

Waterbody: Bayou L'eau Bleu Tapedown 1: Staff Gauge 1:

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

Site Location: Approx. midway b/w Tom Forest Canal & unnamed canal

Personnel: SAVANT, LAFleur

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☒ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☒ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): _____

Continuous Monitor Location: _____

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

Flow Measurement: ☐ Measurement Location: _____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: _____

Flow Estimated: ☐ Measurement Location: _____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): _____ Time (s): _____

Mid Stream: Distance (ft): _____ Time (s): _____

Left Descending Bank: Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☒ Measurement Location: At site

Type of Measurement Manual: ☐ Fathometer ☒ Cross Section File Name: BLB02

GPS Measurement: ☐ GPS SSF File Name: _____

Site GPS: ☐ Cross Section GPS: ☐

Comments: _____

BLB-02 120303 6/29/04 14:10 HRS

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: 080 Laser Gun 32005012031

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: BLB-03 Subsegment: 120303 Date: 6/29/04 Time: 1400

Waterbody: unnamed canal b/w Company & L'eau Bleu Tapedown 1: ____ Staff Gauge 1: ____

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

Site Location: Approx. midway along unnamed canal b/w Company Canal & B. L'eau Bleu

Personnel: Savant, LaFleur

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☒ towards L'eau Bleu Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☒

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: ____ Temp.(°C): ____ pH: ____ Spcond(µhmos/cm): ____

D.O.: ____ D.O. %: ____ Salinity: ____ Depth (m): ____ Secchi (in): ____

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

Cross Section Measurement: ☒ Measurement Location: At site

Type of Measurement Manual: ☐ Fathometer ☒ Cross Section File Name: BLB 03

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS: ☐ Cross Section GPS: ☐

Comments: ____

BLB - 03 120303 6/29/04 14:00

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: 080 Laser Gun 32005012031

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: BLB-04 Subsegment: 120303 Date: 6 29 04 Time: 1420

Waterbody: Bayou L'eau Bleu Tapedown 1: Staff Gauge 1:

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

Site Location: Approx. 0.3 mi below old oilfield canal

Personnel: LaFleur, Savant

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☒ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☒ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☒ Measurement Location: At site

Type of Measurement Manual: ☐ Fathometer ☒ Cross Section File Name: BLB04

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BLB-04 120303 6/29/04 14:20

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒
Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:
In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: 080 Laser Gun 32005012031
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: BLB-04 Subsegment: 120303 Date: 6 30 04 Time: 1200 hrs.

Waterbody: Bayou L'eau Bleu Tapedown 1: Staff Gauge 1:

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

Site Location: Approx. 0.3 mi. below old oil field canal

Personnel: Sandat, LA Fleur

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☒ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒

Wind Influence: ☒ Wind Influence Direction: Upstream ☒ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ Water Quality Field Parameters: ☒ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1200 Temp.(°C): 29.01 pH: 7.17 Spcond(µhmos/cm): 1996

D.O.: 2.83 D.O. %: 36.6 Salinity: 0.09 Depth (m): 1m Secchi (in): —

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BLB-04 120303 6/30/04 12:00 HRS

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: 39896 Surveyor 4a S/N: S1969 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: BLB-05 Subsegment: 120303 Date: 6/29/04 Time: 11:00

Waterbody: Bayou L'eau Bleu Tapedown 1: Staff Gauge 1:

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

Site Location: 0.7 mi below WQ site 931

Personnel: LaFleur, Savant

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☒ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☒ Continuous Monitor S/N: 39895

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1m

Continuous Monitor Location: at site

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☒ Measurement Location: 265' downstream of site

Type of Measurement Manual: ☐ Fathometer ☒ Cross Section File Name: BLB05

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BLB-05 120303 6/29/04 11:00

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: 080 Laser Gun 32005012031

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: BLB-05 Subsegment: 120303 Date: 6/30/04 Time: 1010

Waterbody: Bayou L'eau Bleu Tapedown 1: Staff Gauge 1:

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

Site Location: Approx. 0.7 mi below WQ site 931

Personnel: Savant, LaFleur

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☒ Wind Influence Direction: Upstream ☒ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ Water Quality Field Parameters: ☒ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1010 Temp.(°C): 28.93 pH: 6.74 Spcond(µhmos/cm): 202.4

D.O.: 1.91 D.O. %: 24.6 Salinity: 0.09 Depth (m): 1m Secchi (in): 18

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BLB-05 120303 6/30/04 10:10

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: 39896 Surveyor 4a S/N: S1969 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: BLB05 Subsegment: 120303 Date: 7/6/04 Time: 1130

Waterbody: Bayou L'eau Bleu Tapedown 1: Staff Gauge 1:

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

Site Location: .7 mi below LDQ site 931

Personnel: Boffy, Savant, Schwartz

Type of Work: Recon ☐ Data Collection ☑

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

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 35875

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: **Temp.(°C):** **pH:** **Spcond(µhmos/cm):**

D.O.: **D.O. %:** **Salinity:** **Depth (m):** **Secchi (in):**

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BLB-05 120303 7/6/04 11:30

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0

Site Information

Site #: BLB-07 Subsegment: 120303 Date: 6/29/04 Time: 1215 hrs.

Waterbody: Bayou L'eau Bleu Tapedown 1: Staff Gauge 1:

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

Site Location: Approximately 0.5 mi Above ICWW

Personnel: Savant, LaFleur

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☒ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒

Wind Influence: ☒ Wind Influence Direction: Upstream ☒ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Continuous Monitor Deployed: ☒ Continuous Monitor S/N: 39894

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1m

Continuous Monitor Location: At site

Water Quality Field Parameters

Time: **Temp.(°C):** **pH:** **Spcond(µhmos/cm):**

D.O.: **D.O. %:** **Salinity:** **Depth (m):** **Secchi (in):**

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☒ Measurement Location: At site

Type of Measurement Manual: ☐ Fathometer ☒ Cross Section File Name: BLB07

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BLB-07 120303 6/29/04 12:15HRS

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: 080 Laser Gun 3200501 2031

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: BLB-07 Subsegment: 120303 Date: 6/30/04 Time: 1045 hrs.

Waterbody: Bayou L'eau Bleu Tapedown 1: Staff Gauge 1:

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

Site Location: Approx. 0.5 mi Above the ICWW

Personnel: Savant, LaFleur

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☒ Wind Influence Direction: Upstream ☒ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ Water Quality Field Parameters: ☒ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1045 Temp.(°C): 28.89 pH: 6.87 Spcond(µhmos/cm): 284.8

D.O.: 1.96 D.O. %: 25.5 Salinity: 0.14 Depth (m): 1m Secchi (in): –

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BLB-07 6/30/04 120303 10:45 HRS

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: 39896 Surveyor 4a S/N: S1969 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: BLB07 Subsegment: 120303 Date: 7/6/04 Time: 1115
Waterbody: Bayou L'eau Bleu Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: .5 mi above ICWW
Personnel: Boffy, Savant, Schwartz
Type of Work: Recon ☐ Data Collection ☑

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

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters**: ☐ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 39894
Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: **Temp.(°C):** **pH:** **Spcond(µhmos/cm):**
D.O.: **D.O. %:** **Salinity:** **Depth (m):** **Secchi (in):**

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments:

BLB-07 120303 7/6/04 11:15

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0

Site Information

Site #: ICWW-02 Subsegment: 120303 Date: 6/30/04 Time: 0930 hrs

Waterbody: Intracoastal Waterway Tapedown 1: ____ Staff Gauge 1: ____

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

Site Location: Midway B/T Company Canal & Lake Long Oilfield Canal

Personnel: Schwartz, Earles

Type of Work: Recon ☐ Data Collection ☑

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

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☑ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: 0930 hrs Temp.(°C): 27.85 pH: 6.98 Spcond(µhmos/cm): 209.4

D.O.: 3.05 D.O. %: 38.9 Salinity: 0.10 Depth (m): 1m Secchi (in): 14in

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

Cross Section Measurement: ☐ Measurement Location: ____

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: ____

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS: ☐ Cross Section GPS: ☐

Comments: ____

ICWW -01 120303 6/30/04 11:10 HRS

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☒ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Equipment Used:

In Situ Probe S/N: 39896 Surveyor 4a S/N: 51969 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: ICWW-01 Subsegment: 120303 Date: 6/30/04 Time: 1110 hrs.

Waterbody: Intracoastal Waterway Tapedown 1: Staff Gauge 1:

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

Site Location: At the mouth of Bayou L'eau Bleu

Personnel: Savant, LaFleur

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☒ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☒ (towards Bayou LaFourche) Tidally Influenced: ☒

Wind Influence: ☒ Wind Influence Direction: Upstream ☒ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ Water Quality Field Parameters: ☒ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1110 Temp.(°C): 28.96 pH: 6.96 Spcond(µhmos/cm): 271.1

D.O.: 3.71 D.O. %: 47.3 Salinity: 0.13 Depth (m): 1M Secchi (in): —

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

ICWW -02 120303 6/30/04 09:30 HRS

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☑
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑
Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:	Temp.(°C):	pH:	Spcond(µhmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(°C):	pH:	Spcond(µhmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(°C):	pH:	Spcond(µhmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:
In Situ Probe S/N: 39003 Surveyor 4a S/N: 52766 GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0

Site Information

Site #: CC-01 Subsegment: 120302 Date: 6/28/04 Time: 9:30

Waterbody: Company Canal Tapedown 1: Staff Gauge 1:

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

Site Location: Midway b/w Fort Argent Pumpstation & Old Oilfield Canal

Personnel: Jones, Brignac

Type of Work: Recon ☐ Data Collection ☑

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

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 41501

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1m

Continuous Monitor Location: at site

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

CC-01 120302 6/29/04 9:30

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☑ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ ~~Soft~~ HARD Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☑ Industrial ☑ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Site Information

Site #: C001 Subsegment: 120302 Date: 6/30/04 Time: 1130

Waterbody: Company Canal Tapedown 1: Staff Gauge 1:

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

Site Location: Midway B/4 Erty Arpent Pumpstation & old oilfield canal

Personnel: Jones; Brignac.

Type of Work: Recon ☐ Data Collection ☑

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

Stream Characteristics: Flowing: ☑ Measurable Flow: ☑

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☑ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1130 Temp.(°C): 29.02 pH: 7.36 Spcond(µhmos/cm): 201.5

D.O.: 5.37 D.O. %: 70.1 Salinity: 0.09 Depth (m): 1m Secchi (in): 18

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

CC-01 120302 6/ 30/04 11:30

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Equipment Used:

In Situ Probe S/N: 40803 Surveyor 4a S/N: 52701 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Site Information

Site #: CL-01 Subsegment: 120303 Date: 7/16/04 Time: 1240

Waterbody: Company Canal Tapedown 1: Staff Gauge 1:

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

Site Location: Approx midway b/t Forty Arpent Pl Station & oil Field Canal

Personnel: Boffy, Sauvoth, Schwartz

Type of Work: Recon ☐ Data Collection ☐

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

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☑ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 40501

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: **Temp.(°C):** **pH:** **Spcond(µhmos/cm):**

D.O.: **D.O. %:** **Salinity:** **Depth (m):** **Secchi (in):**

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

CC-01 120302 7/6/04 12:40

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0

Site Information

Site #: CC-02 Subsegment: 120302 Date: 6/29/09 Time: 9:15 am

Waterbody: Company Canal Tapedown 1: Staff Gauge 1:

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

Site Location: Midway between Bayou L'Eau Bleu + Lake Long Inlet

Personnel: Corey Schwartzenburg, James Earles

Type of Work: Recon ☐ Data Collection ☑

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

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 40810

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1 m

Continuous Monitor Location: at site CC-02

Water Quality Field Parameters

Time: 9:18am Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): 1 m Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☑ Measurement Location: at site CC-02

Type of Measurement Manual: ☑ Fathometer ☑ Cross Section File Name: CC-02 XS

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

CC-02 120302 6/29/04 9:15am

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☑

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: 11950 Laser Gun Gun 1

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: CC-02 Subsegment: 120302 Date: 6/30/04 Time: 1145 hrs

Waterbody: Company Canal Tapedown 1: ____ Staff Gauge 1: ____

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

Site Location: Midway b/t Bayou L'Eau & Lake Long Inlet

Personnel: Schwartz, Earles

Type of Work: Recon ☐ Data Collection ☑

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

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☑ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☑ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: 1145 hrs Temp.(°C): 28.67 pH: 7.57 Spcond(µhmos/cm): 184.0

D.O.: 4.87 D.O. %: 63.1 Salinity: 0.08 Depth (m): 1m Secchi (in): 12in

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

Cross Section Measurement: ☐ Measurement Location: ____

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: ____

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS: ☐ Cross Section GPS: ☐

Comments: ____

CC-02 120302 6/30/04 11:45 HRS

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:
In Situ Probe S/N: 39003 Surveyor 4a S/N: 52766 GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0

Site Information

Site: CC02 Subsegment: 120303 Date: 7/6/04 Time: 1005

Waterbody: Company Canal Tapedown 1: Staff Gauge 1:

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

Site Location: Midway Rd., Ugau Bleu & Lake Long

Personnel: Bothy, Savant, Swartz.

Type of Work: Recon ☐ Data Collection ☑

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

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 40810

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: **Temp.(°C):** **pH:** **Spcond(µhmos/cm):**

D.O.: **D.O. %:** **Salinity:** **Depth (m):** **Secchi (in):**

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

CC-02 120302 7/6/04 10:05 HRS

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time: Temp.(C): pH: Spcond(hmos/cm):

D.O.: D.O. %: Salinity: Depth (m):

Time: Temp.(C): pH: Spcond(hmos/cm):

D.O.: D.O. %: Salinity: Depth (m):

Time: Temp.(C): pH: Spcond(hmos/cm):

D.O.: D.O. %: Salinity: Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m

1.0 ft 0.30 m

1.5 ft 0.45 m

2.0 ft 0.60 m

2.5 ft 0.75 m

Site Information

Site #: TFC-01 Subsegment: 120303 Date: 6 29,04 Time: 1340

Waterbody: Tom Forest Canal Tapedown 1: ____ Staff Gauge 1: ____

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

Site Location: Approx. 0.3 mi from Al Robichaux pump station

Personnel: LaFleur, Savant

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: ____ Temp.(°C): ____ pH: ____ Spcond(µhmos/cm): ____

D.O.: ____ D.O. %: ____ Salinity: ____ Depth (m): ____ Secchi (in): ____

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

Cross Section Measurement: ☒ Measurement Location: At site

Type of Measurement Manual: ☐ Fathometer ☒ Cross Section File Name: TFC01

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS: ☐ Cross Section GPS: ☐

Comments: ____

TFC - 02 120303 6/29/04 13:50

Site Information

Site #: TFC02 Subsegment: 120303 Date: 6/29/04 Time: 1350

Waterbody: Tom Foret CANAL Tapedown 1: Staff Gauge 1:

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

Site Location: Approx. 0.2 mi. Above Bayou L'eau Bleu

Personnel: Savant, LaFleur

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☒ Measurement Location: At site

Type of Measurement Manual: ☐ Fathometer ☒ Cross Section File Name: TFC02

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

TFC -01 120303 6/29/04 13:40

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☒ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☒ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: 080 Laser Gun 5200501 2031

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: TFC-01 Subsegment: 120303 Date: 6 29,04 Time: 1340

Waterbody: Tom Forest Canal Tapedown 1: ____ Staff Gauge 1: ____

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

Site Location: Approx. 0.3 mi from Al Robichaux pump station

Personnel: LaFleur, Savant

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: ____ Temp.(°C): ____ pH: ____ Spcond(µhmos/cm): ____

D.O.: ____ D.O. %: ____ Salinity: ____ Depth (m): ____ Secchi (in): ____

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

Cross Section Measurement: ☒ Measurement Location: At site

Type of Measurement Manual: ☐ Fathometer ☒ Cross Section File Name: TFC01

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS: ☐ Cross Section GPS: ☐

Comments: ____

TFC -01 120303 6/30/04 12:50 HRS

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: 39896 Surveyor 4a S/N: 51969 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: TFC-01 Subsegment: 120303 Date: 6 30 04 Time: 1250 hrs.

Waterbody: Tom Foret Canal Tapedown 1: Staff Gauge 1:

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

Site Location: Approx. 0.3 mi. from Al Robichaux pump station

Personnel: Savant, LAPlour.

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ Water Quality Field Parameters: ☒ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1250 Temp.(°C): 28.99 pH: 7.08 Spcond(µhmos/cm): 276.7

D.O.: 2.91 D.O. %: 34.4 Salinity: 0.13 Depth (m): 1M Secchi (in): —

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

TFC -02 120303 6/29/04 13:50

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☒ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☒ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒
Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:
In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: 080 Laser Gun 32005012031
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

TFC -01 120303 6/29/04 13:40

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☒ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☒ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: 080 Laser Gun 520050/2031

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: TC-01 Subsegment: 120302 Date: 6/30/04 Time: 1015hrs
Waterbody: Theriot Canal Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: At representative cross-section between the gate and Bayou Cutoff
Personnel: Dickinson, Fontenot

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☒ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ **Water Quality Field Parameters:** ☒ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

IBV – 7.7
IBC – 10.9

Time: 1015hrs **Temp.(°C):** 25.62 **pH:** 6.74 **Spcond(µhmos/cm):** 239.4
D.O.: ~~0.88~~ 2.09 **D.O. %:** ~~40.8~~ 26. **/Salinity:** 0.08 **Depth (m):** 0.5m **Secchi (in):** ~~12.00~~ in

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☒ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☒ Dye Estimate: ☐
towards B. Lafourche Right Descending Bank: Distance (ft): 10.0ft Time (s): 180s → 10ft from bank
Mid Stream: Distance (ft): 5.0ft Time (s): 180s
Left Descending Bank: Distance (ft): 0ft Time (s): 180s → 15ft from bank
Cross Section Measurement: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments: Flow towards Bayou Lafourche

TFC -01 120303 6/30/04 12:50 HRS

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:

In Situ Probe S/N: 39896 Surveyor 4a S/N: 51969 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

TFC - 02 120303 6/29/04 13:50

Site Information

Site #: TFC02 Subsegment: 120303 Date: 6/29/04 Time: 1350

Waterbody: Tom Foret CANAL Tapedown 1: Staff Gauge 1:

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

Site Location: Approx. 0.2 mi. Above Bayou L'eau Bleu

Personnel: Savant, LaFleur

Type of Work: Recon ☐ Data Collection ☒

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

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☒ Measurement Location: At site

Type of Measurement Manual: ☐ Fathometer ☒ Cross Section File Name: TFC02

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

TFC -02 120303 6/29/04 13:50

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☒ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☒ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒
Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Equipment Used:
In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: 080 Laser Gun 32005012031
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Appendix F4 – Continuous Monitor

CONTINUOUS MONITOR @ SAMPLE TIME				
SITE NO.	Temp ^{O}C	SpCond (uS/cm)	pH	DO (mg/l)
BLB-01	28.3	532	6.74	0.11
BLB-05	28.9	210	6.88	1.46
BLB-07	28.8	295	6.82	1.47

CONTINUOUS MONITOR - 6/30 MINIMUM				
SITE NO.	Temp ^{O}C	SpCond (uS/cm)	pH	DO (mg/l)
BLB-05	28.6	208	6.71	0.44
BLB-07	28.5	243	6.79	1.19

CONTINUOUS MONITOR - 6/30 MAXIMUM				
SITE NO.	Temp ^{O}C	SpCond (uS/cm)	pH	DO (mg/l)
BLB-05	29.8	225	7.00	3.69
BLB-07	30.3	318	6.96	5.01

CONTINUOUS MONITOR - 6/30 AVERAGE				
SITE NO.	Temp ^{O}C	SpCond (uS/cm)	pH	DO (mg/l)
BLB-05	29.2	212	6.85	1.73
BLB-07	29.2	271	6.85	2.55

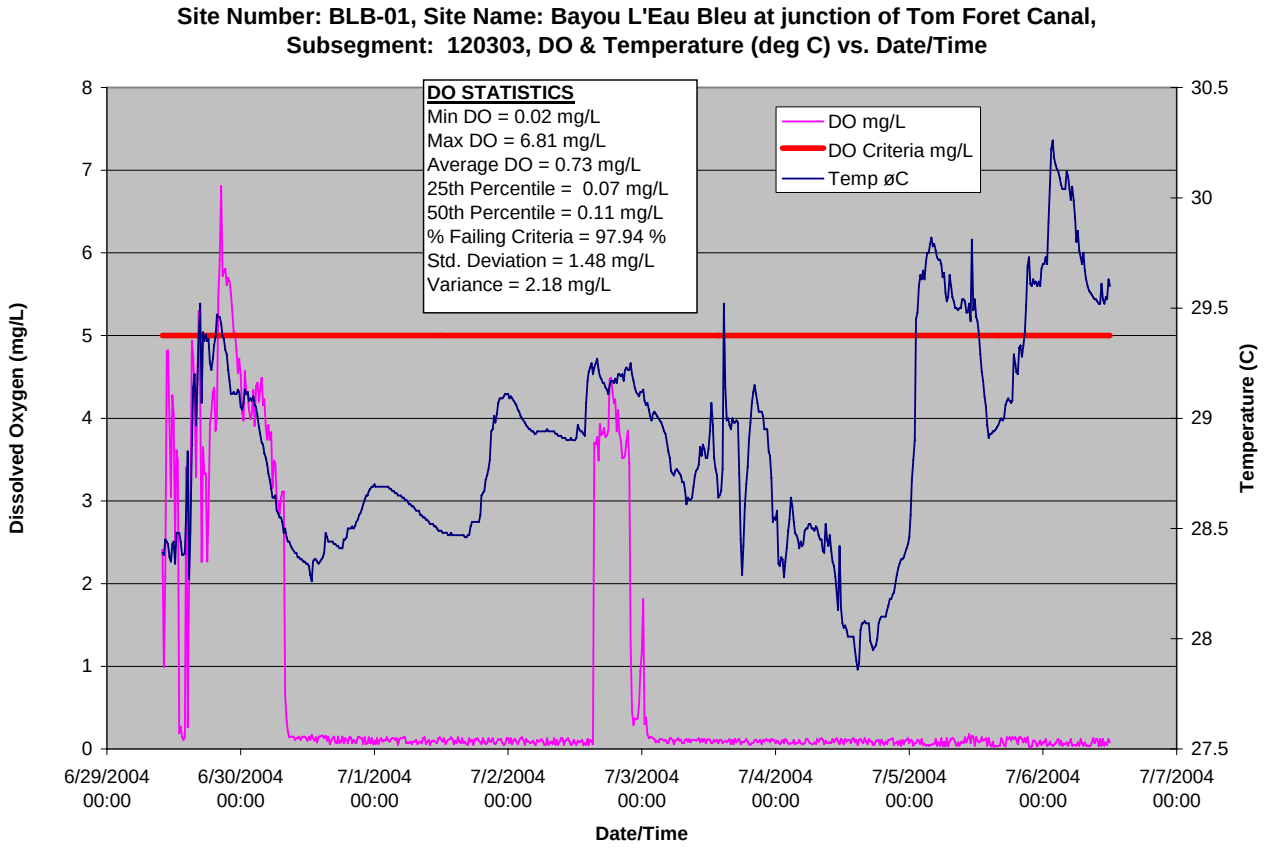
Bayou L'Eau Bleu Continuous Monitoring Diurnal Range			
Site	**DO, mg/l Minimum Values**	**DO mg/L Maximum Values**	**Diurnal Swing**
BLB-05	0.44	3.69	3.25
BLB-07	1.19	5.01	3.82

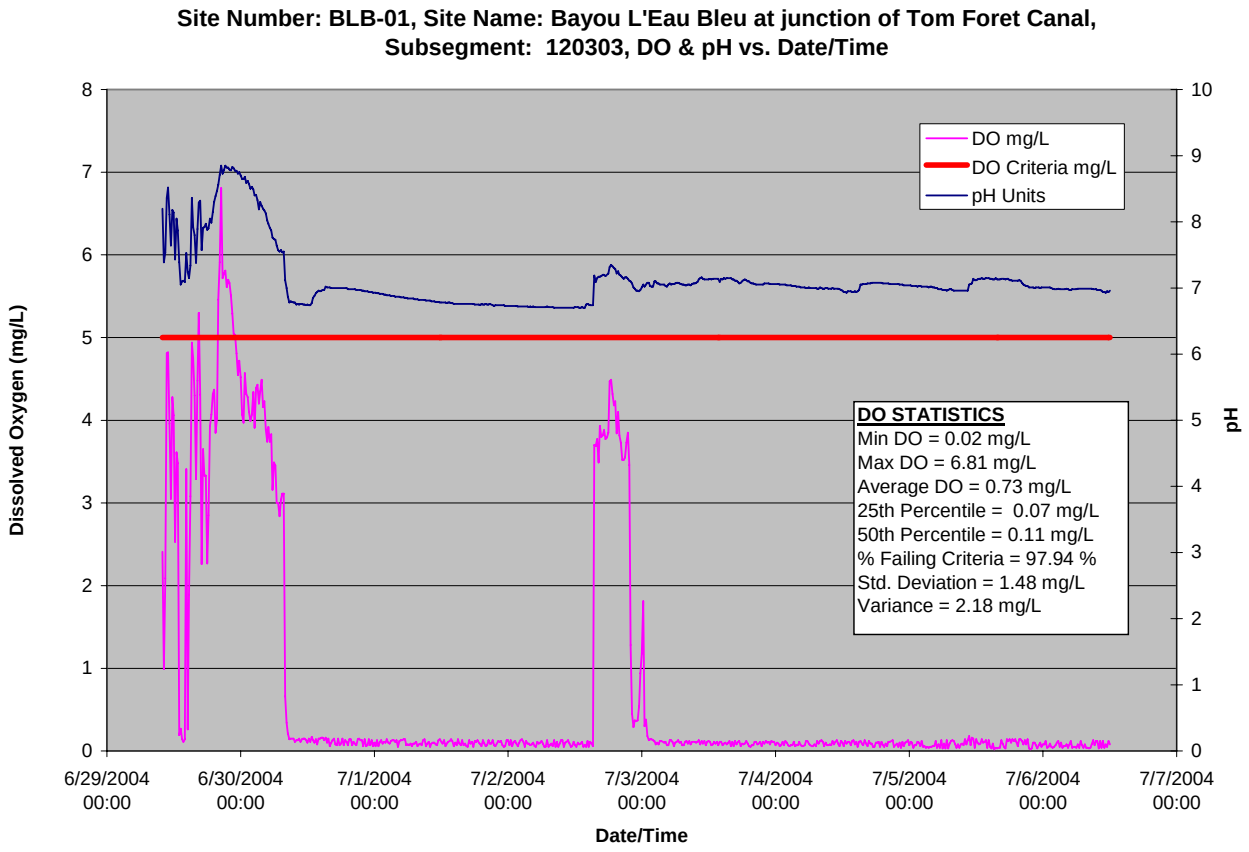
Tidal Height Calculations	
0.874	max height ignoring barge episode
0.811	min height
0.063	tide height is diff of max - min

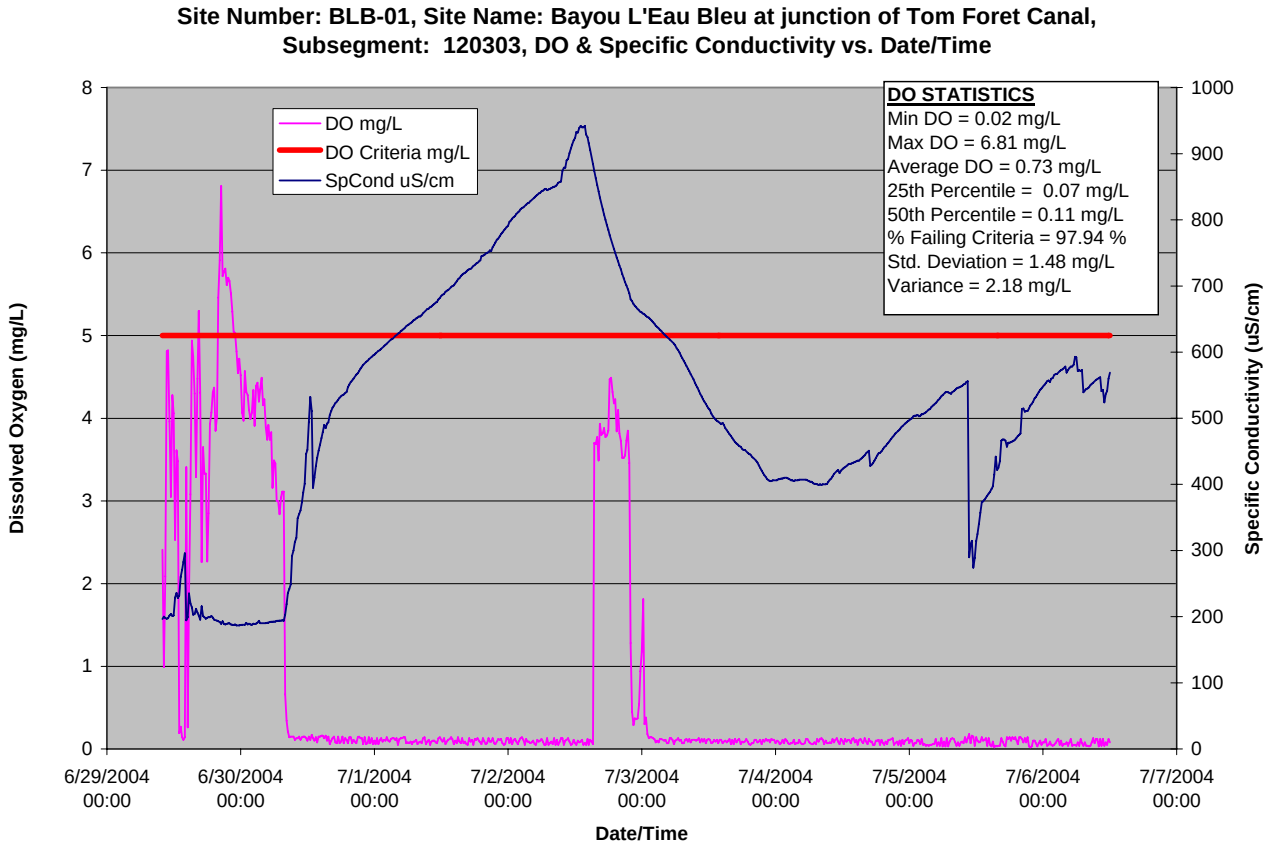
Site Number: BLB-01 Site Name: Bayou L'Eau Bleu at junction of Tom Foret Canal
Subsegment #: 120303 Date: 6/29/2004

	Temp deg C	pH	SpCond uS/cm	DO %	DO mg/L
Minimum	27.86	6.70	186.80	0.30	0.02
Maximum	30.26	8.85	942.00	89.20	6.81
Average	28.88	7.11	525.65	9.47	0.73
25th Percentile	28.49	6.90	411.00	0.90	0.07
30th Percentile	28.53	6.95	436.00	1.00	0.08
40th Percentile	28.68	6.98	479.00	1.20	0.09
50th Percentile	28.90	7.01	525.00	1.40	0.11
Standard Deviation	0.48	0.45	189.07	19.25	1.48
Variance	0.23	0.20	35745.69	370.74	2.18

Data Row Count	681
Total Values Failing DO Criteria	667
Percent failing DO Criteria	97.94 %


Site Number: BLB-01, Site Name: Bayou L'Eau Bleu at junction of Tom Foret Canal, Subsegment: 120303, DO & Temperature (deg C) vs. Date/Time
DO STATISTICS
Min DO = 0.02 mg/L
Max DO = 6.81 mg/L
Average DO = 0.73 mg/L
25th Percentile = 0.07 mg/L
50th Percentile = 0.11 mg/L
% Failing Criteria = 97.94 %
Std. Deviation = 1.48 mg/L
Variance = 2.18 mg/L
DO mg/L
DO Criteria mg/L
Temp øC
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
0
1
2
3
4
5
6
7
8
27.5
28
28.5
29
29.5
30
30.5
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BLB-01, Site Name: Bayou L'Eau Bleu at junction of Tom Foret Canal, Subsegment: 120303, DO & pH vs. Date/Time
Dissolved Oxygen (mg/L)
pH
Date/Time
DO mg/L
DO Criteria mg/L
pH Units
DO STATISTICS
Min DO = 0.02 mg/L
Max DO = 6.81 mg/L
Average DO = 0.73 mg/L
25th Percentile = 0.07 mg/L
50th Percentile = 0.11 mg/L
% Failing Criteria = 97.94 %
Std. Deviation = 1.48 mg/L
Variance = 2.18 mg/L
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BLB-01, Site Name: Bayou L'Eau Bleu at junction of Tom Foret Canal, Subsegment: 120303, DO & Specific Conductivity vs. Date/Time
DO mg/L
DO Criteria mg/L
SpCond uS/cm
DO STATISTICS
Min DO = 0.02 mg/L
Max DO = 6.81 mg/L
Average DO = 0.73 mg/L
25th Percentile = 0.07 mg/L
50th Percentile = 0.11 mg/L
% Failing Criteria = 97.94 %
Std. Deviation = 1.48 mg/L
Variance = 2.18 mg/L
Dissolved Oxygen (mg/L)
Specific Conductivity (uS/cm)
Date/Time
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00

Bayou L'Eau Bleu Site BLB-01 Continuous Monitoring Data									
Date	Time	Temp	pH	Cond	Depth	DO %	DO	Sal	DO Criteria
		°C	units	uS/cm	m	Sat	mg/L	ppt	mg/L
6/29/2004	10:00	28.39	8.2	196.5	31	2.41	12	0.09	5
6/29/2004	10:15	28.38	7.39	200	12.8	0.99	12	0.09	5
6/29/2004	10:30	28.45	7.54	197.8	26.9	2.09	12	0.09	5
6/29/2004	10:45	28.44	8.36	196.9	61.9	4.81	11.9	0.09	5
6/29/2004	11:00	28.43	8.52	197.6	62.1	4.82	12	0.09	5
6/29/2004	11:15	28.37	8.11	202	51	3.96	11.9	0.09	5
6/29/2004	11:30	28.35	7.64	204	39.2	3.05	12	0.09	5
6/29/2004	11:45	28.43	8.18	201	55.1	4.28	11.9	0.09	5
6/29/2004	12:00	28.44	8.14	202	52.3	4.06	12	0.09	5
6/29/2004	12:15	28.34	7.43	229	32.6	2.53	12	0.11	5
6/29/2004	12:30	28.48	8.05	236	46.6	3.61	11.8	0.11	5
6/29/2004	12:45	28.48	7.87	228	44.9	3.48	11.9	0.11	5
6/29/2004	13:00	28.48	7.39	232	2.5	0.19	11.8	0.11	5
6/29/2004	13:15	28.44	7.05	260	3.4	0.27	11.8	0.12	5
6/29/2004	13:30	28.38	7.1	271	1.8	0.14	11.8	0.13	5
6/29/2004	13:45	28.38	7.11	283	1.5	0.11	12	0.14	5
6/29/2004	14:00	28.39	7.09	296	1.8	0.14	11.8	0.14	5
6/29/2004	14:15	28.59	7.53	194.5	44.1	3.41	11.8	0.09	5
6/29/2004	14:30	28.85	7.24	199.5	3.3	0.26	11.8	0.09	5
6/29/2004	14:45	28.27	7.15	235	24.3	1.89	11.8	0.11	5
6/29/2004	15:00	28.49	7.34	220	39.8	3.08	11.8	0.1	5
6/29/2004	15:15	28.88	8.36	214	64.2	4.94	11.8	0.1	5
6/29/2004	15:30	29.14	7.92	203	62	4.75	11.8	0.09	5
6/29/2004	15:45	29.2	7.8	204	56.1	4.3	11.8	0.09	5
6/29/2004	16:00	28.97	7.38	212	42.8	3.29	11.9	0.1	5
6/29/2004	16:15	29.18	7.89	206	58.5	4.48	11.8	0.1	5
6/29/2004	16:30	29.38	8.29	202	69.4	5.3	11.8	0.09	5
6/29/2004	16:45	29.52	8.32	195.4	56.6	4.31	11.9	0.09	5
6/29/2004	17:00	29.07	7.57	216	29.5	2.26	11.9	0.1	5
6/29/2004	17:15	29.39	7.91	201	47.8	3.65	11.9	0.09	5
6/29/2004	17:30	29.35	7.92	199.5	43.6	3.33	11.9	0.09	5
6/29/2004	17:45	29.38	7.97	197	43.7	3.33	11.9	0.09	5
6/29/2004	18:00	29.35	7.88	198.3	29.7	2.27	11.9	0.09	5
6/29/2004	18:15	29.36	7.9	199.5	37.3	2.85	11.8	0.09	5
6/29/2004	18:30	29.25	8.05	198.9	51.4	3.93	11.9	0.09	5
6/29/2004	18:45	29.22	7.99	201	53.2	4.07	11.9	0.09	5
6/29/2004	19:00	29.27	8.15	198.8	56.4	4.32	11.9	0.09	5
6/29/2004	19:15	29.33	8.3	195.4	57.2	4.37	11.9	0.09	5
6/29/2004	19:30	29.37	8.39	194.8	50.4	3.85	11.9	0.09	5
6/29/2004	19:45	29.47	8.47	194.2	52.7	4.02	11.9	0.09	5
6/29/2004	20:00	29.46	8.56	192.9	71.7	5.46	11.9	0.09	5
6/29/2004	20:15	29.46	8.71	192	77.6	5.91	11.9	0.09	5

6/29/2004	20:30	29.43	8.85	189.2	89.2	6.81	11.9	0.09	5
6/29/2004	20:45	29.37	8.73	192.9	74.9	5.72	11.9	0.09	5
6/29/2004	21:00	29.36	8.78	189.2	75.5	5.77	11.9	0.09	5
6/29/2004	21:15	29.31	8.85	188	76	5.81	11.9	0.09	5
6/29/2004	21:30	29.29	8.82	189.3	73.3	5.61	11.9	0.09	5
6/29/2004	21:45	29.22	8.82	189.8	74.4	5.7	11.9	0.09	5
6/29/2004	22:00	29.17	8.79	190	73.8	5.66	11.8	0.09	5
6/29/2004	22:15	29.11	8.78	188	71.8	5.51	11.9	0.09	5
6/29/2004	22:30	29.11	8.83	187.9	69	5.29	11.9	0.09	5
6/29/2004	22:45	29.12	8.81	187.6	65.8	5.05	11.9	0.09	5
6/29/2004	23:00	29.11	8.77	188.3	65.6	5.03	11.8	0.09	5
6/29/2004	23:15	29.11	8.77	186.9	62.7	4.81	11.9	0.08	5
6/29/2004	23:30	29.13	8.73	186.8	59.3	4.55	11.9	0.08	5
6/29/2004	23:45	29.12	8.75	186.8	61.5	4.72	11.8	0.08	5
6/30/2004	0:00	29.05	8.7	187.4	58.9	4.52	11.8	0.08	5
6/30/2004	0:15	29.04	8.65	187.8	52.9	4.07	11.9	0.09	5
6/30/2004	0:30	29.07	8.65	187.7	51.7	3.97	11.8	0.09	5
6/30/2004	0:45	29.13	8.68	187.9	59.5	4.57	11.8	0.09	5
6/30/2004	1:00	29.11	8.59	190.5	56.4	4.32	11.8	0.09	5
6/30/2004	1:15	29.12	8.62	188.2	55.9	4.28	11.8	0.09	5
6/30/2004	1:30	29.08	8.57	189.4	53.4	4.1	11.8	0.09	5
6/30/2004	1:45	29.09	8.5	188.2	52	3.99	11.8	0.09	5
6/30/2004	2:00	29.08	8.53	187.7	53	4.07	11.8	0.09	5
6/30/2004	2:15	29.1	8.49	189.7	56.6	4.34	11.8	0.09	5
6/30/2004	2:30	29.06	8.4	188.8	51	3.91	11.8	0.09	5
6/30/2004	2:45	29.05	8.41	189.6	57.1	4.39	11.8	0.09	5
6/30/2004	3:00	29.01	8.33	190.8	57.7	4.43	11.8	0.09	5
6/30/2004	3:15	28.96	8.19	193.7	54.7	4.2	11.8	0.09	5
6/30/2004	3:30	28.93	8.3	190.3	56.5	4.35	11.8	0.09	5
6/30/2004	3:45	28.89	8.24	190.4	58.3	4.49	11.8	0.09	5
6/30/2004	4:00	28.88	8.2	190.2	54.1	4.16	11.8	0.09	5
6/30/2004	4:15	28.84	8.17	190.2	54.9	4.23	11.8	0.09	5
6/30/2004	4:30	28.82	8.13	190.4	50.5	3.89	11.8	0.09	5
6/30/2004	4:45	28.79	8.02	190.8	48.5	3.74	11.8	0.09	5
6/30/2004	5:00	28.75	7.97	191	50.7	3.92	11.8	0.09	5
6/30/2004	5:15	28.72	7.91	191.9	48.4	3.74	11.8	0.09	5
6/30/2004	5:30	28.68	7.87	192.3	49.6	3.83	11.8	0.09	5
6/30/2004	5:45	28.64	7.76	192.2	40.8	3.16	11.8	0.09	5
6/30/2004	6:00	28.64	7.74	192.6	45.1	3.49	11.8	0.09	5
6/30/2004	6:15	28.65	7.73	192.6	44.6	3.45	11.8	0.09	5
6/30/2004	6:30	28.58	7.64	193.7	38.8	3	11.8	0.09	5
6/30/2004	6:45	28.57	7.57	193.8	38.8	3	11.8	0.09	5
6/30/2004	7:00	28.55	7.55	194.2	36.7	2.84	11.8	0.09	5
6/30/2004	7:15	28.55	7.57	194.2	39.3	3.04	11.8	0.09	5
6/30/2004	7:30	28.53	7.54	194.4	40.1	3.11	11.8	0.09	5

6/30/2004	7:45	28.48	7.55	193.8	40	3.11	11.8	0.09	5
6/30/2004	8:00	28.5	7.12	203	8.5	0.66	11.7	0.09	5
6/30/2004	8:15	28.46	7	219	4.4	0.34	11.8	0.1	
6/30/2004	8:30	28.44	6.87	236	2.7	0.21	11.8	0.11	5
6/30/2004	8:45	28.44	6.78	242	1.8	0.14	11.8	0.11	5
6/30/2004	9:00	28.42	6.8	249	1.9	0.15	11.8	0.12	5
6/30/2004	9:15	28.41	6.79	292	2	0.15	11.8	0.14	5
6/30/2004	9:30	28.4	6.78	300	1.9	0.15	11.8	0.15	5
6/30/2004	9:45	28.39	6.78	313	1.5	0.11	11.8	0.15	5
6/30/2004	10:00	28.39	6.75	319	1.7	0.13	11.8	0.16	5
6/30/2004	10:15	28.37	6.76	349	1.6	0.13	11.8	0.17	5
6/30/2004	10:30	28.37	6.75	355	1.9	0.15	11.8	0.17	5
6/30/2004	10:45	28.36	6.76	361	1.5	0.11	11.8	0.18	5
6/30/2004	11:00	28.36	6.76	373	1.8	0.14	11.8	0.18	5
6/30/2004	11:15	28.35	6.75	388	2	0.15	11.8	0.19	5
6/30/2004	11:30	28.35	6.75	401	2	0.15	11.8	0.2	5
6/30/2004	11:45	28.34	6.74	446	1.7	0.13	11.8	0.22	5
6/30/2004	12:00	28.34	6.75	452	1.3	0.1	11.8	0.23	5
6/30/2004	12:15	28.33	6.74	494	2	0.15	11.8	0.25	5
6/30/2004	12:30	28.29	6.74	532	1.4	0.11	11.8	0.27	5
6/30/2004	12:45	28.26	6.77	511	2.1	0.17	11.8	0.26	5
6/30/2004	13:00	28.35	6.85	395	1.6	0.13	11.8	0.2	5
6/30/2004	13:15	28.36	6.88	410	1.3	0.1	11.8	0.2	5
6/30/2004	13:30	28.36	6.92	428	1.8	0.14	11.7	0.21	5
6/30/2004	13:45	28.35	6.94	440	1	0.08	11.7	0.22	5
6/30/2004	14:00	28.34	6.96	451	2	0.15	11.7	0.23	5
6/30/2004	14:15	28.35	6.95	460	1.9	0.15	11.7	0.23	5
6/30/2004	14:30	28.36	6.96	470	2.1	0.16	11.6	0.24	5
6/30/2004	14:45	28.37	6.97	479	2.1	0.16	11.7	0.24	5
6/30/2004	15:00	28.39	6.97	490	1.7	0.13	11.5	0.25	5
6/30/2004	15:15	28.48	7.02	485	2.1	0.16	11.5	0.24	5
6/30/2004	15:30	28.46	7.01	492	1.3	0.1	11.6	0.25	5
6/30/2004	15:45	28.44	7.01	494	2	0.15	11.5	0.25	5
6/30/2004	16:00	28.44	7.01	505	0.8	0.06	11.6	0.26	5
6/30/2004	16:15	28.44	7	511	1.3	0.1	11.5	0.26	5
6/30/2004	16:30	28.44	7	516	1.6	0.13	11.6	0.26	5
6/30/2004	16:45	28.43	7	519	1.9	0.15	11.6	0.26	5
6/30/2004	17:00	28.43	7	523	1	0.08	11.5	0.27	5
6/30/2004	17:15	28.42	7	525	0.9	0.07	11.5	0.27	5
6/30/2004	17:30	28.42	7	528	1.9	0.15	11.6	0.27	5
6/30/2004	17:45	28.41	7	531	0.9	0.07	11.5	0.27	5
6/30/2004	18:00	28.41	7	533	1.2	0.09	11.5	0.27	5
6/30/2004	18:15	28.41	7	535	1.9	0.15	11.5	0.27	5
6/30/2004	18:30	28.45	7	536	0.9	0.07	11.5	0.27	5
6/30/2004	18:45	28.45	7	538	1.6	0.13	11.6	0.27	5
6/30/2004	19:00	28.46	7	540	1.5	0.11	11.5	0.27	5

6/30/2004	19:15	28.5	6.98	547	0.9	0.07	11.7	0.28	5
6/30/2004	19:30	28.5	6.98	551	1.8	0.14	11.4	0.28	5
6/30/2004	19:45	28.5	6.98	555	1.8	0.14	11.6	0.28	5
6/30/2004	20:00	28.51	6.98	557	0.9	0.07	11.6	0.28	5
6/30/2004	20:15	28.5	6.98	560	1.5	0.11	11.4	0.29	5
6/30/2004	20:30	28.51	6.98	563	1.1	0.09	11.5	0.29	5
6/30/2004	20:45	28.53	6.97	566	0.9	0.07	11.4	0.29	5
6/30/2004	21:00	28.54	6.97	568	1.8	0.14	11.5	0.29	5
6/30/2004	21:15	28.56	6.97	571	1.9	0.15	11.5	0.29	5
6/30/2004	21:30	28.57	6.97	575	1.6	0.13	11.4	0.29	5
6/30/2004	21:45	28.59	6.96	578	1.6	0.13	11.6	0.3	5
6/30/2004	22:00	28.61	6.96	581	0.8	0.06	11.5	0.3	5
6/30/2004	22:15	28.63	6.95	583	1.8	0.14	11.6	0.3	5
6/30/2004	22:30	28.65	6.95	585	0.8	0.06	11.6	0.3	5
6/30/2004	22:45	28.65	6.95	587	0.9	0.07	11.6	0.3	5
6/30/2004	23:00	28.67	6.94	589	1.8	0.14	11.4	0.3	5
6/30/2004	23:15	28.68	6.94	591	0.9	0.07	11.5	0.3	5
6/30/2004	23:30	28.69	6.94	593	1.7	0.13	11.5	0.3	5
6/30/2004	23:45	28.69	6.93	595	0.8	0.06	11.4	0.3	5
7/1/2004	0:00	28.7	6.93	596	1.3	0.1	11.5	0.31	5
7/1/2004	0:15	28.69	6.93	598	0.8	0.06	11.4	0.31	5
7/1/2004	0:30	28.69	6.92	600	1.7	0.13	11.5	0.31	5
7/1/2004	0:45	28.69	6.92	602	0.8	0.06	11.5	0.31	5
7/1/2004	1:00	28.69	6.91	603	1.4	0.11	11.4	0.31	5
7/1/2004	1:15	28.69	6.91	605	1.7	0.13	11.5	0.31	5
7/1/2004	1:30	28.69	6.91	607	1.1	0.09	11.4	0.31	5
7/1/2004	1:45	28.69	6.9	609	1.4	0.11	11.6	0.31	5
7/1/2004	2:00	28.69	6.9	611	1.3	0.1	11.4	0.31	5
7/1/2004	2:15	28.69	6.89	613	1.8	0.14	11.4	0.31	5
7/1/2004	2:30	28.69	6.89	615	1.3	0.1	11.4	0.31	5
7/1/2004	2:45	28.68	6.89	617	1.2	0.09	11.4	0.32	5
7/1/2004	3:00	28.68	6.88	619	1.5	0.12	11.4	0.32	5
7/1/2004	3:15	28.67	6.88	620	1.7	0.13	11.5	0.32	5
7/1/2004	3:30	28.67	6.88	622	1.7	0.13	11.4	0.32	5
7/1/2004	3:45	28.66	6.87	624	1.5	0.11	11.4	0.32	5
7/1/2004	4:00	28.66	6.87	626	1.6	0.13	11.4	0.32	5
7/1/2004	4:15	28.65	6.87	628	0.7	0.05	11.4	0.32	5
7/1/2004	4:30	28.65	6.87	629	1.5	0.12	11.4	0.32	5
7/1/2004	4:45	28.65	6.86	632	1.7	0.13	11.4	0.32	5
7/1/2004	5:00	28.64	6.86	633	1.7	0.13	11.5	0.32	5
7/1/2004	5:15	28.64	6.86	635	1.8	0.14	11.4	0.33	5
7/1/2004	5:30	28.63	6.85	637	1.8	0.14	11.4	0.33	5
7/1/2004	5:45	28.63	6.85	639	0.9	0.07	11.4	0.33	5
7/1/2004	6:00	28.62	6.84	641	1	0.08	11.4	0.33	5
7/1/2004	6:15	28.61	6.84	642	0.9	0.07	11.4	0.33	5

7/1/2004	6:30	28.61	6.84	644	1.2	0.09	11.4	0.33	5
7/1/2004	6:45	28.6	6.84	645	0.8	0.06	11.4	0.33	5
7/1/2004	7:00	28.6	6.84	648	1.1	0.09	11.4	0.33	5
7/1/2004	7:15	28.59	6.83	649	1.1	0.09	11.4	0.33	5
7/1/2004	7:30	28.58	6.83	651	1.4	0.11	11.4	0.33	5
7/1/2004	7:45	28.58	6.83	652	0.8	0.06	11.4	0.34	5
7/1/2004	8:00	28.58	6.82	654	1	0.08	11.4	0.34	5
7/1/2004	8:15	28.56	6.82	654	1.2	0.09	11.4	0.34	5
7/1/2004	8:30	28.56	6.82	656	0.9	0.07	11.4	0.34	5
7/1/2004	8:45	28.55	6.82	659	1.6	0.13	11.4	0.34	5
7/1/2004	9:00	28.55	6.82	661	1.8	0.14	11.4	0.34	5
7/1/2004	9:15	28.54	6.81	663	0.8	0.06	11.4	0.34	5
7/1/2004	9:30	28.54	6.81	665	1.1	0.09	11.4	0.34	5
7/1/2004	9:45	28.53	6.81	666	1.5	0.11	11.4	0.34	5
7/1/2004	10:00	28.52	6.81	668	0.7	0.05	11.4	0.34	5
7/1/2004	10:15	28.52	6.8	669	1.2	0.09	11.4	0.34	5
7/1/2004	10:30	28.52	6.8	671	1.3	0.1	11.4	0.35	5
7/1/2004	10:45	28.51	6.8	673	1.3	0.1	11.4	0.35	5
7/1/2004	11:00	28.51	6.79	675	1	0.08	11.4	0.35	5
7/1/2004	11:15	28.5	6.79	676	0.9	0.07	11.3	0.35	5
7/1/2004	11:30	28.49	6.79	680	1.7	0.13	11.4	0.35	5
7/1/2004	11:45	28.49	6.78	682	1.8	0.14	11.4	0.35	5
7/1/2004	12:00	28.49	6.78	685	1.5	0.11	11.3	0.35	5
7/1/2004	12:15	28.48	6.78	687	1.2	0.09	11.3	0.35	5
7/1/2004	12:30	28.48	6.78	688	1.7	0.13	11.4	0.35	5
7/1/2004	12:45	28.48	6.78	691	0.8	0.06	11.4	0.36	5
7/1/2004	13:00	28.48	6.77	693	1.2	0.09	11.4	0.36	5
7/1/2004	13:15	28.47	6.78	694	1.5	0.11	11.4	0.36	5
7/1/2004	13:30	28.47	6.78	696	1.5	0.12	11.4	0.36	5
7/1/2004	13:45	28.48	6.77	698	1.8	0.14	11.4	0.36	5
7/1/2004	14:00	28.47	6.77	700	1.5	0.12	11.4	0.36	5
7/1/2004	14:15	28.47	6.76	701	0.8	0.06	11.3	0.36	5
7/1/2004	14:30	28.47	6.76	704	1.3	0.1	11.4	0.36	5
7/1/2004	14:45	28.47	6.76	707	0.9	0.07	11.3	0.36	5
7/1/2004	15:00	28.47	6.76	710	1.8	0.14	11.3	0.37	5
7/1/2004	15:15	28.47	6.76	712	1.2	0.09	11.4	0.37	5
7/1/2004	15:30	28.47	6.76	715	0.9	0.07	11.3	0.37	5
7/1/2004	15:45	28.47	6.76	717	1.7	0.13	11.4	0.37	5
7/1/2004	16:00	28.47	6.76	719	0.9	0.07	11.3	0.37	5
7/1/2004	16:15	28.46	6.76	720	1.1	0.09	11.4	0.37	5
7/1/2004	16:30	28.46	6.76	722	0.8	0.06	11.3	0.37	5
7/1/2004	16:45	28.47	6.76	724	0.7	0.05	11.4	0.37	5
7/1/2004	17:00	28.47	6.76	725	1.7	0.13	11.4	0.37	5
7/1/2004	17:15	28.51	6.76	726	1.1	0.09	11.4	0.38	5
7/1/2004	17:30	28.53	6.76	728	1.5	0.11	11.4	0.38	5

7/1/2004	17:45	28.53	6.76	730	0.7	0.05	11.3	0.38	5
7/1/2004	18:00	28.53	6.75	732	1.5	0.12	11.4	0.38	5
7/1/2004	18:15	28.53	6.75	734	1.5	0.11	11.4	0.38	5
7/1/2004	18:30	28.53	6.75	735	1.6	0.13	11.4	0.38	5
7/1/2004	18:45	28.53	6.75	737	1.3	0.1	11.4	0.38	5
7/1/2004	19:00	28.56	6.74	739	1	0.08	11.3	0.38	5
7/1/2004	19:15	28.65	6.76	745	0.8	0.06	11.4	0.39	5
7/1/2004	19:30	28.66	6.75	746	1.6	0.13	11.4	0.39	5
7/1/2004	19:45	28.67	6.75	747	1.1	0.09	11.4	0.39	5
7/1/2004	20:00	28.72	6.76	749	0.8	0.06	11.4	0.39	5
7/1/2004	20:15	28.74	6.75	750	0.9	0.07	11.4	0.39	5
7/1/2004	20:30	28.77	6.75	751	1.7	0.13	11.3	0.39	5
7/1/2004	20:45	28.81	6.76	754	1.1	0.09	11.3	0.39	5
7/1/2004	21:00	28.94	6.75	753	1.1	0.09	11.4	0.39	5
7/1/2004	21:15	28.95	6.74	759	1.7	0.13	11.4	0.39	5
7/1/2004	21:30	29.01	6.73	762	0.9	0.07	11.4	0.39	5
7/1/2004	21:45	28.98	6.74	766	0.8	0.06	11.4	0.4	5
7/1/2004	22:00	29.02	6.74	770	1.1	0.09	11.4	0.4	5
7/1/2004	22:15	29.07	6.74	772	1.5	0.12	11.3	0.4	5
7/1/2004	22:30	29.09	6.74	775	1.5	0.11	11.3	0.4	5
7/1/2004	22:45	29.09	6.74	778	1.6	0.12	11.4	0.4	5
7/1/2004	23:00	29.09	6.74	781	0.9	0.07	11.3	0.4	5
7/1/2004	23:15	29.1	6.74	784	0.7	0.05	11.3	0.41	5
7/1/2004	23:30	29.11	6.73	786	0.8	0.06	11.3	0.41	5
7/1/2004	23:45	29.11	6.73	789	1.7	0.13	11.3	0.41	5
7/2/2004	0:00	29.11	6.73	791	1.7	0.13	11.3	0.41	5
7/2/2004	0:15	29.09	6.73	797	0.9	0.07	11.3	0.41	5
7/2/2004	0:30	29.1	6.73	799	1.7	0.13	11.3	0.41	5
7/2/2004	0:45	29.09	6.73	802	0.8	0.06	11.3	0.42	5
7/2/2004	1:00	29.08	6.73	804	1.5	0.11	11.4	0.42	5
7/2/2004	1:15	29.07	6.73	806	1.6	0.12	11.3	0.42	5
7/2/2004	1:30	29.06	6.73	809	1.2	0.09	11.3	0.42	5
7/2/2004	1:45	29.04	6.72	811	0.8	0.06	11.3	0.42	5
7/2/2004	2:00	29.03	6.72	813	1.3	0.1	11.3	0.42	5
7/2/2004	2:15	29.01	6.72	816	1.7	0.13	11.3	0.42	5
7/2/2004	2:30	29	6.72	818	1.8	0.14	11.4	0.42	5
7/2/2004	2:45	28.99	6.72	819	1.4	0.11	11.3	0.43	5
7/2/2004	3:00	28.98	6.72	821	0.7	0.05	11.3	0.43	5
7/2/2004	3:15	28.97	6.72	823	1.6	0.12	11.2	0.43	5
7/2/2004	3:30	28.96	6.72	825	1.1	0.09	11.3	0.43	5
7/2/2004	3:45	28.95	6.71	826	1.2	0.09	11.3	0.43	5
7/2/2004	4:00	28.95	6.72	828	0.9	0.07	11.3	0.43	5
7/2/2004	4:15	28.94	6.71	830	1	0.08	11.3	0.43	5
7/2/2004	4:30	28.94	6.72	832	1.3	0.1	11.3	0.43	5

7/2/2004	4:45	28.93	6.71	834	0.8	0.06	11.3	0.43	5
7/2/2004	5:00	28.93	6.71	836	0.6	0.05	11.3	0.43	5
7/2/2004	5:15	28.94	6.71	838	1.4	0.11	11.3	0.44	5
7/2/2004	5:30	28.94	6.71	840	1.1	0.09	11.3	0.44	5
7/2/2004	5:45	28.94	6.71	841	1.3	0.1	11.3	0.44	5
7/2/2004	6:00	28.94	6.71	843	1.6	0.12	11.4	0.44	5
7/2/2004	6:15	28.94	6.71	844	1.1	0.09	11.4	0.44	5
7/2/2004	6:30	28.94	6.71	846	0.6	0.05	11.3	0.44	5
7/2/2004	6:45	28.94	6.71	847	0.6	0.05	11.3	0.44	5
7/2/2004	7:00	28.95	6.72	845	1.7	0.13	11.3	0.44	5
7/2/2004	7:15	28.94	6.71	846	0.6	0.05	11.4	0.44	5
7/2/2004	7:30	28.94	6.71	847	0.9	0.07	11.3	0.44	5
7/2/2004	7:45	28.94	6.71	848	1.1	0.09	11.2	0.44	5
7/2/2004	8:00	28.94	6.71	849	0.8	0.06	11.3	0.44	5
7/2/2004	8:15	28.94	6.7	850	1.7	0.13	11.3	0.44	5
7/2/2004	8:30	28.93	6.7	851	0.7	0.05	11.3	0.44	5
7/2/2004	8:45	28.93	6.7	853	1.4	0.11	11.4	0.44	5
7/2/2004	9:00	28.92	6.7	856	0.7	0.05	11.3	0.45	5
7/2/2004	9:15	28.92	6.7	857	1.1	0.09	11.3	0.45	5
7/2/2004	9:30	28.92	6.7	858	1.7	0.13	11.3	0.45	5
7/2/2004	9:45	28.91	6.7	874	1.7	0.13	11.3	0.46	5
7/2/2004	10:00	28.91	6.7	879	0.6	0.05	11.4	0.46	5
7/2/2004	10:15	28.91	6.7	879	1.3	0.1	11.3	0.46	5
7/2/2004	10:30	28.9	6.7	890	1.4	0.11	11.2	0.46	5
7/2/2004	10:45	28.9	6.7	892	1.6	0.13	11.2	0.46	5
7/2/2004	11:00	28.9	6.7	901	1.2	0.09	11.3	0.47	5
7/2/2004	11:15	28.91	6.7	908	0.6	0.05	11.2	0.47	5
7/2/2004	11:30	28.9	6.7	914	0.8	0.06	11.2	0.48	5
7/2/2004	11:45	28.9	6.7	920	1.5	0.11	11.2	0.48	5
7/2/2004	12:00	28.9	6.71	924	0.9	0.07	11.3	0.48	5
7/2/2004	12:15	28.91	6.71	933	0.6	0.05	11.2	0.49	5
7/2/2004	12:30	28.97	6.71	932	1.3	0.1	11.2	0.49	5
7/2/2004	12:45	28.95	6.7	939	1	0.08	11.2	0.49	5
7/2/2004	13:00	28.94	6.7	942	1.1	0.09	11.2	0.49	5
7/2/2004	13:15	28.94	6.71	940	1.4	0.11	11.3	0.49	5
7/2/2004	13:30	28.93	6.7	940	0.6	0.05	11.2	0.49	5
7/2/2004	13:45	28.92	6.7	942	0.9	0.07	11.3	0.49	5
7/2/2004	14:00	29.07	6.75	929	0.7	0.05	11.4	0.49	5
7/2/2004	14:15	29.17	6.76	925	1.6	0.12	11.4	0.48	5
7/2/2004	14:30	29.21	6.75	916	0.7	0.05	11.3	0.48	5
7/2/2004	14:45	29.23	6.74	906	1.5	0.11	11.4	0.47	5
7/2/2004	15:00	29.25	6.74	895	1.2	0.09	11.4	0.47	5
7/2/2004	15:15	29.2	6.74	884	0.8	0.06	11.3	0.46	5
7/2/2004	15:30	29.23	7.19	874	48.5	3.7	11.4	0.45	5
7/2/2004	15:45	29.25	7.09	863	48.4	3.69	11.4	0.45	5

7/2/2004	16:00	29.27	7.15	853	49.3	3.77	11.2	0.44	5
7/2/2004	16:15	29.22	7.17	843	45.7	3.49	11.4	0.44	5
7/2/2004	16:30	29.19	7.17	834	51.5	3.93	11.4	0.43	5
7/2/2004	16:45	29.18	7.18	825	49.7	3.8	11.3	0.43	5
7/2/2004	17:00	29.16	7.2	816	49.9	3.82	11.3	0.42	5
7/2/2004	17:15	29.16	7.2	808	50.8	3.88	11.4	0.42	5
7/2/2004	17:30	29.14	7.18	800	49.3	3.77	11.4	0.41	5
7/2/2004	17:45	29.13	7.2	792	49.5	3.79	11.2	0.41	5
7/2/2004	18:00	29.11	7.22	785	50.3	3.85	11.4	0.41	5
7/2/2004	18:15	29.15	7.32	777	58.4	4.47	11.4	0.4	5
7/2/2004	18:30	29.17	7.35	770	58.7	4.49	11.4	0.4	5
7/2/2004	18:45	29.17	7.33	763	56.5	4.32	11.3	0.39	5
7/2/2004	19:00	29.16	7.3	756	54.7	4.18	11.3	0.39	5
7/2/2004	19:15	29.18	7.29	750	55.3	4.23	11.3	0.39	5
7/2/2004	19:30	29.16	7.22	743	50.2	3.84	11.4	0.38	5
7/2/2004	19:45	29.2	7.25	737	53.7	4.1	11.4	0.38	5
7/2/2004	20:00	29.2	7.2	731	50	3.82	11.3	0.38	5
7/2/2004	20:15	29.19	7.19	725	48.8	3.73	11.2	0.37	5
7/2/2004	20:30	29.2	7.16	718	46.1	3.52	11.3	0.37	5
7/2/2004	20:45	29.17	7.14	712	46	3.52	11.3	0.37	5
7/2/2004	21:00	29.22	7.16	706	46.4	3.55	11.4	0.36	5
7/2/2004	21:15	29.23	7.16	701	48.8	3.73	11.3	0.36	5
7/2/2004	21:30	29.22	7.14	695	50.4	3.85	11.3	0.36	5
7/2/2004	21:45	29.22	7.11	689	45.2	3.46	11.2	0.36	5
7/2/2004	22:00	29.25	7.1	680	16.8	1.28	11.4	0.35	5
7/2/2004	22:15	29.2	7.07	677	5.9	0.45	11.4	0.35	5
7/2/2004	22:30	29.17	7.01	673	3.9	0.29	11.3	0.35	5
7/2/2004	22:45	29.14	6.99	670	4.9	0.37	11.4	0.34	5
7/2/2004	23:00	29.12	6.96	668	4.7	0.36	11.3	0.34	5
7/2/2004	23:15	29.11	6.96	665	4.9	0.37	11.3	0.34	5
7/2/2004	23:30	29.1	6.95	663	7	0.54	11.3	0.34	5
7/2/2004	23:45	29.12	6.97	661	12.3	0.94	11.4	0.34	5
7/3/2004	0:00	29.12	7.01	660	15.4	1.18	11.3	0.34	5
7/3/2004	0:15	29.13	7.05	658	23.6	1.81	11.3	0.34	5
7/3/2004	0:30	29.08	7.02	657	3.9	0.3	11.4	0.34	5
7/3/2004	0:45	29.06	7.05	655	5	0.38	11.4	0.34	5
7/3/2004	1:00	29.07	7.08	653	2.3	0.18	11.4	0.34	5
7/3/2004	1:15	29.04	7.08	652	1.7	0.13	11.4	0.34	5
7/3/2004	1:30	29.01	7.03	650	1.9	0.14	11.3	0.33	5
7/3/2004	1:45	28.99	7.02	648	1.9	0.14	11.3	0.33	5
7/3/2004	2:00	29.02	7.02	645	1.7	0.13	11.4	0.33	5
7/3/2004	2:15	29.03	7.1	643	1.6	0.12	11.4	0.33	5
7/3/2004	2:30	29.02	7.1	640	1	0.08	11.4	0.33	5
7/3/2004	2:45	29.01	7.07	638	1.3	0.1	11.3	0.33	5
7/3/2004	3:00	29	7.07	636	1	0.08	11.3	0.33	5

7/3/2004	3:15	28.99	7.05	634	1.6	0.12	11.3	0.33	5
7/3/2004	3:30	28.98	7.05	632	1.5	0.12	11.4	0.32	5
7/3/2004	3:45	28.96	7.05	629	1.5	0.11	11.3	0.32	5
7/3/2004	4:00	28.94	7.05	627	1.3	0.1	11.4	0.32	5
7/3/2004	4:15	28.93	7.03	625	1.4	0.11	11.4	0.32	5
7/3/2004	4:30	28.89	7.02	623	0.9	0.07	11.4	0.32	5
7/3/2004	4:45	28.85	7.05	621	0.9	0.07	11.4	0.32	5
7/3/2004	5:00	28.82	7.07	619	1.6	0.13	11.3	0.32	5
7/3/2004	5:15	28.76	7.05	617	1.6	0.13	11.4	0.32	5
7/3/2004	5:30	28.75	7.06	615	1.4	0.11	11.4	0.32	5
7/3/2004	5:45	28.74	7.06	613	0.8	0.06	11.4	0.31	5
7/3/2004	6:00	28.76	7.07	610	1.3	0.1	11.4	0.31	5
7/3/2004	6:15	28.77	7.08	606	1.5	0.11	11.3	0.31	5
7/3/2004	6:30	28.76	7.08	603	1.6	0.13	11.3	0.31	5
7/3/2004	6:45	28.75	7.07	599	1.3	0.1	11.4	0.31	5
7/3/2004	7:00	28.74	7.06	595	1.4	0.11	11.3	0.3	5
7/3/2004	7:15	28.71	7.05	591	0.9	0.07	11.4	0.3	5
7/3/2004	7:30	28.71	7.05	587	0.9	0.07	11.4	0.3	5
7/3/2004	7:45	28.67	7.04	583	1.5	0.11	11.3	0.3	5
7/3/2004	8:00	28.61	7.04	579	1.5	0.12	11.4	0.3	5
7/3/2004	8:15	28.64	7.05	575	1.1	0.09	11.3	0.29	5
7/3/2004	8:30	28.63	7.05	571	1.5	0.12	11.3	0.29	5
7/3/2004	8:45	28.63	7.04	567	1	0.08	11.4	0.29	5
7/3/2004	9:00	28.64	7.06	563	1.5	0.11	11.4	0.29	5
7/3/2004	9:15	28.69	7.07	559	1.5	0.11	11.3	0.28	5
7/3/2004	9:30	28.74	7.07	554	1.5	0.11	11.4	0.28	5
7/3/2004	9:45	28.76	7.08	550	1.3	0.1	11.4	0.28	5
7/3/2004	10:00	28.77	7.09	546	1.4	0.11	11.4	0.28	5
7/3/2004	10:15	28.79	7.13	542	1.7	0.13	11.3	0.28	5
7/3/2004	10:30	28.87	7.15	537	1	0.08	11.4	0.27	5
7/3/2004	10:45	28.83	7.16	533	1.5	0.12	11.4	0.27	5
7/3/2004	11:00	28.88	7.14	529	1.1	0.09	11.3	0.27	5
7/3/2004	11:15	28.86	7.13	525	1.5	0.12	11.4	0.27	5
7/3/2004	11:30	28.82	7.13	522	0.9	0.07	11.4	0.26	5
7/3/2004	11:45	28.82	7.13	518	1.4	0.11	11.3	0.26	5
7/3/2004	12:00	28.86	7.13	515	1.5	0.12	11.3	0.26	5
7/3/2004	12:15	28.94	7.14	512	1.4	0.11	11.4	0.26	5
7/3/2004	12:30	29.07	7.13	507	0.9	0.07	11.4	0.26	5
7/3/2004	12:45	28.97	7.14	503	1	0.08	11.4	0.25	5
7/3/2004	13:00	28.82	7.14	501	1.5	0.11	11.4	0.25	5
7/3/2004	13:15	28.77	7.14	498	1.2	0.09	11.4	0.25	5
7/3/2004	13:30	28.74	7.14	496	1.4	0.11	11.3	0.25	5
7/3/2004	13:45	28.64	7.14	495	0.9	0.07	11.3	0.25	5
7/3/2004	14:00	28.65	7.09	493	1.4	0.11	11.3	0.25	5
7/3/2004	14:15	28.67	7.14	491	1.5	0.11	11.4	0.25	5

7/3/2004	14:30	28.77	7.13	493	0.9	0.07	11.4	0.25	5
7/3/2004	14:45	29.52	7.15	490	1.2	0.09	11.3	0.25	5
7/3/2004	15:00	29.14	7.14	485	1.3	0.1	11.3	0.24	5
7/3/2004	15:15	28.99	7.15	482	1	0.08	11.4	0.24	5
7/3/2004	15:30	29	7.15	479	1.3	0.1	11.4	0.24	5
7/3/2004	15:45	28.97	7.15	476	1.5	0.12	11.3	0.24	5
7/3/2004	16:00	28.95	7.15	473	0.8	0.06	11.4	0.24	5
7/3/2004	16:15	29	7.13	470	1.5	0.11	11.3	0.24	5
7/3/2004	16:30	28.98	7.13	467	0.8	0.06	11.4	0.24	5
7/3/2004	16:45	28.98	7.11	464	1.5	0.12	11.3	0.23	5
7/3/2004	17:00	28.99	7.11	462	1	0.08	11.4	0.23	5
7/3/2004	17:15	28.98	7.09	460	1.5	0.11	11.3	0.23	5
7/3/2004	17:30	28.75	7.07	458	1.5	0.12	11.3	0.23	5
7/3/2004	17:45	28.45	7.08	457	0.8	0.06	11.3	0.23	5
7/3/2004	18:00	28.29	7.1	454	1.2	0.09	11.4	0.23	5
7/3/2004	18:15	28.42	7.12	452	1	0.08	11.3	0.23	5
7/3/2004	18:30	28.6	7.13	452	1.1	0.09	11.3	0.23	5
7/3/2004	18:45	28.7	7.12	450	1.5	0.12	11.3	0.23	5
7/3/2004	19:00	28.78	7.1	448	1.1	0.09	11.3	0.23	5
7/3/2004	19:15	28.9	7.1	446	0.8	0.06	11.4	0.22	5
7/3/2004	19:30	28.98	7.08	445	0.7	0.05	11.4	0.22	5
7/3/2004	19:45	29.07	7.07	442	0.9	0.07	11.4	0.22	5
7/3/2004	20:00	29.12	7.07	440	0.9	0.07	11.4	0.22	5
7/3/2004	20:15	29.15	7.06	438	1.5	0.11	11.4	0.22	5
7/3/2004	20:30	29.11	7.05	436	1.5	0.11	11.3	0.22	5
7/3/2004	20:45	29.07	7.05	433	1	0.08	11.4	0.22	5
7/3/2004	21:00	29.03	7.05	429	1.1	0.09	11.4	0.21	5
7/3/2004	21:15	29.03	7.05	425	1.4	0.11	11.3	0.21	5
7/3/2004	21:30	29.03	7.05	421	0.8	0.06	11.4	0.21	5
7/3/2004	21:45	29.01	7.05	417	1.5	0.11	11.3	0.21	5
7/3/2004	22:00	28.95	7.07	414	1.2	0.09	11.3	0.21	5
7/3/2004	22:15	28.95	7.07	411	1.5	0.12	11.4	0.2	5
7/3/2004	22:30	28.95	7.07	408	1.3	0.1	11.3	0.2	5
7/3/2004	22:45	28.85	7.07	406	1.5	0.11	11.3	0.2	5
7/3/2004	23:00	28.83	7.06	405	1	0.08	11.3	0.2	5
7/3/2004	23:15	28.73	7.06	405	1.5	0.12	11.4	0.2	5
7/3/2004	23:30	28.53	7.06	406	1.5	0.11	11.3	0.2	5
7/3/2004	23:45	28.55	7.06	406	1.4	0.11	11.3	0.2	5
7/4/2004	0:00	28.54	7.06	406	0.9	0.07	11.4	0.2	5
7/4/2004	0:15	28.58	7.06	406	1.3	0.1	11.3	0.2	5
7/4/2004	0:30	28.34	7.06	408	1.2	0.09	11.3	0.2	5
7/4/2004	0:45	28.33	7.05	408	0.8	0.06	11.3	0.2	5
7/4/2004	1:00	28.37	7.05	409	0.9	0.07	11.3	0.2	5
7/4/2004	1:15	28.36	7.05	409	1.5	0.11	11.3	0.2	5
7/4/2004	1:30	28.28	7.05	410	0.9	0.07	11.3	0.2	5

7/4/2004	1:45	28.35	7.05	410	1.5	0.12	11.3	0.2	5
7/4/2004	2:00	28.41	7.04	410	1.3	0.1	11.3	0.2	5
7/4/2004	2:15	28.49	7.04	409	0.9	0.07	11.3	0.2	5
7/4/2004	2:30	28.54	7.04	408	0.8	0.06	11.3	0.2	5
7/4/2004	2:45	28.64	7.04	406	0.9	0.07	11.3	0.2	5
7/4/2004	3:00	28.6	7.03	406	0.9	0.07	11.3	0.2	5
7/4/2004	3:15	28.53	7.03	405	1.5	0.11	11.3	0.2	5
7/4/2004	3:30	28.48	7.03	406	0.8	0.06	11.3	0.2	5
7/4/2004	3:45	28.47	7.02	406	0.9	0.07	11.3	0.2	5
7/4/2004	4:00	28.45	7.02	406	0.9	0.07	11.3	0.2	5
7/4/2004	4:15	28.41	7.02	407	1.4	0.11	11.3	0.2	5
7/4/2004	4:30	28.44	7.01	407	0.9	0.07	11.3	0.2	5
7/4/2004	4:45	28.42	7.01	407	0.8	0.06	11.3	0.2	5
7/4/2004	5:00	28.43	7.01	407	0.8	0.06	11.3	0.2	5
7/4/2004	5:15	28.49	7.01	407	0.9	0.07	11.3	0.2	5
7/4/2004	5:30	28.5	7	407	1.5	0.12	11.3	0.2	5
7/4/2004	5:45	28.5	7	406	1.5	0.12	11.3	0.2	5
7/4/2004	6:00	28.52	7.01	405	1.1	0.09	11.3	0.2	5
7/4/2004	6:15	28.52	7	404	0.9	0.07	11.3	0.2	5
7/4/2004	6:30	28.5	7	404	0.8	0.06	11.3	0.2	5
7/4/2004	6:45	28.5	7	402	0.8	0.06	11.3	0.2	5
7/4/2004	7:00	28.49	7	401	1	0.08	11.3	0.2	5
7/4/2004	7:15	28.51	7	401	0.8	0.06	11.3	0.2	5
7/4/2004	7:30	28.5	6.99	400	1.5	0.12	11.3	0.2	5
7/4/2004	7:45	28.47	6.99	399	1.2	0.09	11.3	0.2	5
7/4/2004	8:00	28.45	7.01	400	1.5	0.12	11.3	0.2	5
7/4/2004	8:15	28.45	7	399	1.6	0.13	11.3	0.2	5
7/4/2004	8:30	28.4	6.99	400	1.5	0.11	11.2	0.2	5
7/4/2004	8:45	28.39	6.99	400	0.8	0.06	11.3	0.2	5
7/4/2004	9:00	28.52	7	400	1.3	0.1	11.2	0.2	5
7/4/2004	9:15	28.45	7	401	0.9	0.07	11.3	0.2	5
7/4/2004	9:30	28.42	6.99	404	0.9	0.07	11.3	0.2	5
7/4/2004	9:45	28.47	6.99	407	1	0.08	11.3	0.2	5
7/4/2004	10:00	28.4	6.99	409	0.9	0.07	11.3	0.2	5
7/4/2004	10:15	28.35	7	412	1.5	0.12	11.3	0.21	5
7/4/2004	10:30	28.33	6.99	416	1	0.08	11.3	0.21	5
7/4/2004	10:45	28.28	6.99	418	1.5	0.11	11.3	0.21	5
7/4/2004	11:00	28.2	6.99	420	1.6	0.13	11.3	0.21	5
7/4/2004	11:15	28.13	6.99	422	1.1	0.09	11.3	0.21	5
7/4/2004	11:30	28.42	6.98	417	0.8	0.06	11.3	0.21	5
7/4/2004	11:45	28.14	6.97	421	1.5	0.12	11.3	0.21	5
7/4/2004	12:00	28.07	6.96	423	1.3	0.1	11.3	0.21	5
7/4/2004	12:15	28.05	6.94	425	0.8	0.06	11.3	0.21	5
7/4/2004	12:30	28.06	6.94	426	1.5	0.12	11.2	0.21	5
7/4/2004	12:45	28.04	6.93	428	1.2	0.09	11.3	0.21	5

7/4/2004	13:00	28.01	6.95	430	1.4	0.11	11.2	0.22	5
7/4/2004	13:15	28.01	6.95	431	1.5	0.11	11.3	0.22	5
7/4/2004	13:30	28.01	6.95	431	0.9	0.07	11.3	0.22	5
7/4/2004	13:45	28.01	6.94	432	1.5	0.12	11.2	0.22	5
7/4/2004	14:00	28.01	6.94	433	1.6	0.13	11.2	0.22	5
7/4/2004	14:15	27.95	6.95	434	1	0.08	11.3	0.22	5
7/4/2004	14:30	27.9	6.94	435	1.5	0.11	11.2	0.22	5
7/4/2004	14:45	27.86	6.95	436	0.7	0.05	11.3	0.22	5
7/4/2004	15:00	27.89	6.97	436	1.4	0.11	11.2	0.22	5
7/4/2004	15:15	28.04	7.05	438	1.5	0.12	11.3	0.22	5
7/4/2004	15:30	28.07	7.05	440	1.1	0.09	11.3	0.22	5
7/4/2004	15:45	28.07	7.06	442	0.9	0.07	11.3	0.22	5
7/4/2004	16:00	28.08	7.06	444	1.6	0.13	11.3	0.22	5
7/4/2004	16:15	28.07	7.06	447	1.2	0.09	11.3	0.22	5
7/4/2004	16:30	28.07	7.07	449	0.8	0.06	11.3	0.23	5
7/4/2004	16:45	28.07	7.07	451	1.5	0.12	11.3	0.23	5
7/4/2004	17:00	27.99	7.07	428	1.1	0.09	11.1	0.21	5
7/4/2004	17:15	27.97	7.08	430	1.1	0.09	11.2	0.22	5
7/4/2004	17:30	27.95	7.08	432	0.6	0.05	11.1	0.22	5
7/4/2004	17:45	27.96	7.08	436	0.6	0.05	11.1	0.22	5
7/4/2004	18:00	27.97	7.08	440	1.3	0.1	11.2	0.22	5
7/4/2004	18:15	28	7.08	444	1.3	0.1	11.2	0.22	5
7/4/2004	18:30	28.07	7.08	447	1.5	0.11	11.1	0.22	5
7/4/2004	18:45	28.09	7.08	448	0.6	0.05	11.1	0.22	5
7/4/2004	19:00	28.1	7.08	450	1.4	0.11	11.2	0.23	5
7/4/2004	19:15	28.1	7.07	453	0.9	0.07	11.2	0.23	5
7/4/2004	19:30	28.1	7.07	456	0.6	0.05	11.2	0.23	5
7/4/2004	19:45	28.1	7.07	458	1.2	0.09	11.2	0.23	5
7/4/2004	20:00	28.13	7.07	461	0.8	0.06	11.2	0.23	5
7/4/2004	20:15	28.15	7.07	463	1.4	0.11	11.1	0.23	5
7/4/2004	20:30	28.18	7.06	466	1.4	0.11	11.1	0.23	5
7/4/2004	20:45	28.18	7.06	469	1.5	0.12	11.1	0.24	5
7/4/2004	21:00	28.2	7.06	472	1.6	0.13	11.1	0.24	5
7/4/2004	21:15	28.21	7.06	474	0.6	0.05	11.1	0.24	5
7/4/2004	21:30	28.25	7.06	477	0.9	0.07	11.2	0.24	5
7/4/2004	21:45	28.29	7.06	479	1.1	0.09	11.1	0.24	5
7/4/2004	22:00	28.32	7.06	481	0.7	0.05	11.1	0.24	5
7/4/2004	22:15	28.34	7.05	483	1.3	0.1	11.1	0.24	5
7/4/2004	22:30	28.36	7.05	486	0.5	0.04	11.1	0.25	5
7/4/2004	22:45	28.36	7.05	488	1.5	0.11	11.2	0.25	5
7/4/2004	23:00	28.37	7.04	490	0.8	0.06	11.1	0.25	5
7/4/2004	23:15	28.39	7.04	492	1.3	0.1	11.2	0.25	5
7/4/2004	23:30	28.41	7.04	494	1.5	0.11	11.1	0.25	5
7/4/2004	23:45	28.43	7.04	496	1.6	0.13	11.1	0.25	5
7/5/2004	0:00	28.46	7.04	497	0.9	0.07	11.2	0.25	5

7/5/2004	0:15	28.56	7.04	499	1.4	0.11	11.2	0.25	5
7/5/2004	0:30	28.72	7.03	500	1.3	0.1	11.2	0.25	5
7/5/2004	0:45	28.81	7.03	503	0.5	0.04	11.1	0.25	5
7/5/2004	1:00	28.9	7.03	504	0.9	0.07	11.2	0.26	5
7/5/2004	1:15	29.45	7.03	504	0.9	0.07	11.2	0.25	5
7/5/2004	1:30	29.48	7.02	505	1.5	0.11	11.1	0.26	5
7/5/2004	1:45	29.6	7.03	503	1.4	0.1	11.1	0.25	5
7/5/2004	2:00	29.65	7.03	504	0.9	0.06	11.1	0.26	5
7/5/2004	2:15	29.63	7.02	506	1.6	0.12	11.2	0.26	5
7/5/2004	2:30	29.67	7.02	506	0.7	0.05	11.1	0.26	5
7/5/2004	2:45	29.63	7.02	508	0.8	0.06	11.1	0.26	5
7/5/2004	3:00	29.71	7.02	509	0.5	0.04	11.1	0.26	5
7/5/2004	3:15	29.75	7.02	511	0.7	0.05	11.2	0.26	5
7/5/2004	3:30	29.75	7.01	513	0.5	0.04	11.1	0.26	5
7/5/2004	3:45	29.79	7.02	514	0.6	0.05	11.2	0.26	5
7/5/2004	4:00	29.82	7.02	517	0.6	0.05	11.1	0.26	5
7/5/2004	4:15	29.78	7.01	519	0.9	0.06	11.1	0.26	5
7/5/2004	4:30	29.79	7.01	521	0.9	0.06	11.2	0.26	5
7/5/2004	4:45	29.76	7	523	1.5	0.12	11.1	0.27	5
7/5/2004	5:00	29.73	7	525	0.5	0.04	11.2	0.27	5
7/5/2004	5:15	29.72	6.98	528	1	0.08	11.2	0.27	5
7/5/2004	5:30	29.72	6.98	530	0.5	0.04	11.1	0.27	5
7/5/2004	5:45	29.7	6.98	533	1.7	0.13	11.1	0.27	5
7/5/2004	6:00	29.64	6.97	535	0.3	0.03	11.1	0.27	5
7/5/2004	6:15	29.66	6.97	537	1.2	0.09	11.1	0.27	5
7/5/2004	6:30	29.57	6.97	539	0.4	0.03	11.1	0.27	5
7/5/2004	6:45	29.53	6.96	540	1.7	0.13	11.1	0.27	5
7/5/2004	7:00	29.55	6.97	539	0.4	0.03	11.1	0.27	5
7/5/2004	7:15	29.65	6.98	538	1.2	0.09	11.1	0.27	5
7/5/2004	7:30	29.6	6.98	537	1.6	0.12	11.1	0.27	5
7/5/2004	7:45	29.55	6.97	540	1.7	0.13	11.2	0.27	5
7/5/2004	8:00	29.53	6.96	541	1.6	0.12	11.1	0.28	5
7/5/2004	8:15	29.5	6.96	543	1	0.08	11.1	0.28	5
7/5/2004	8:30	29.5	6.96	545	0.5	0.04	11.1	0.28	5
7/5/2004	8:45	29.49	6.96	546	1	0.08	11.1	0.28	5
7/5/2004	9:00	29.5	6.96	547	0.5	0.04	11.1	0.28	5
7/5/2004	9:15	29.5	6.96	548	1.1	0.08	11.1	0.28	5
7/5/2004	9:30	29.54	6.96	549	1.2	0.09	11.1	0.28	5
7/5/2004	9:45	29.54	6.96	551	0.9	0.07	11.1	0.28	5
7/5/2004	10:00	29.53	6.96	552	1.9	0.14	11.1	0.28	5
7/5/2004	10:15	29.48	6.96	555	1.1	0.08	11.1	0.28	5
7/5/2004	10:30	29.48	6.96	556	1.7	0.13	11.1	0.28	5
7/5/2004	10:45	29.52	7.05	290	2.4	0.18	11.1	0.14	5
7/5/2004	11:00	29.44	7.06	310	0.9	0.07	11.1	0.15	5
7/5/2004	11:15	29.81	7.07	315	2.1	0.16	11.1	0.15	5
7/5/2004	11:30	29.49	7.14	274	2	0.15	11.1	0.13	5

7/5/2004	11:45	29.54	7.12	289	0.5	0.04	11.1	0.14	5
7/5/2004	12:00	29.46	7.12	314	1.9	0.14	11.1	0.15	5
7/5/2004	12:15	29.44	7.13	325	1.3	0.1	11.1	0.16	5
7/5/2004	12:30	29.38	7.14	340	1	0.08	11.1	0.17	5
7/5/2004	12:45	29.29	7.14	357	1.1	0.09	11.1	0.18	5
7/5/2004	13:00	29.21	7.15	373	1.8	0.14	11.1	0.18	5
7/5/2004	13:15	29.17	7.14	374	1.3	0.1	11.1	0.19	5
7/5/2004	13:30	29.1	7.14	377	1.4	0.11	11.1	0.19	5
7/5/2004	13:45	29.05	7.15	380	1.7	0.13	11.1	0.19	5
7/5/2004	14:00	28.97	7.15	383	0.5	0.04	11.1	0.19	5
7/5/2004	14:15	28.91	7.15	386	1.6	0.13	11	0.19	5
7/5/2004	14:30	28.93	7.14	389	0.6	0.05	11.1	0.19	5
7/5/2004	14:45	28.93	7.14	393	0.3	0.03	11	0.2	5
7/5/2004	15:00	28.94	7.13	397	1.1	0.09	11	0.2	5
7/5/2004	15:15	28.94	7.13	415	0.3	0.02	11.1	0.21	5
7/5/2004	15:30	28.95	7.15	442	0.5	0.04	10.9	0.22	5
7/5/2004	15:45	28.96	7.13	422	0.4	0.03	11.1	0.21	5
7/5/2004	16:00	28.97	7.13	425	0.5	0.04	11.1	0.21	5
7/5/2004	16:15	28.99	7.13	435	0.5	0.04	11.1	0.22	5
7/5/2004	16:30	29	7.14	466	1.7	0.13	11.1	0.23	5
7/5/2004	16:45	28.99	7.14	468	1.1	0.09	11.1	0.24	5
7/5/2004	17:00	29	7.14	468	0.6	0.05	11.1	0.24	5
7/5/2004	17:15	29.06	7.13	466	0.3	0.03	11	0.23	5
7/5/2004	17:30	29.08	7.14	457	1.8	0.14	11.1	0.23	5
7/5/2004	17:45	29.09	7.14	463	1.6	0.12	11.1	0.23	5
7/5/2004	18:00	29.08	7.12	463	1.9	0.14	11.1	0.23	5
7/5/2004	18:15	29.07	7.12	464	1.3	0.1	11.1	0.23	5
7/5/2004	18:30	29.08	7.11	465	1.8	0.14	11	0.23	5
7/5/2004	18:45	29.29	7.11	466	1.6	0.12	11	0.23	5
7/5/2004	19:00	29.25	7.11	468	1.8	0.14	11.1	0.24	5
7/5/2004	19:15	29.21	7.11	470	1.5	0.11	11.1	0.24	5
7/5/2004	19:30	29.2	7.11	473	0.8	0.06	11	0.24	5
7/5/2004	19:45	29.32	7.12	475	1.9	0.14	11.1	0.24	5
7/5/2004	20:00	29.33	7.11	477	1.9	0.14	11	0.24	5
7/5/2004	20:15	29.28	7.08	514	1.5	0.12	11.1	0.26	5
7/5/2004	20:30	29.33	7.05	515	1.1	0.08	11.1	0.26	5
7/5/2004	20:45	29.39	7.04	510	1.7	0.13	11.1	0.26	5
7/5/2004	21:00	29.51	7.03	511	1	0.08	11.1	0.26	5
7/5/2004	21:15	29.69	7.03	511	1.9	0.14	11.1	0.26	5
7/5/2004	21:30	29.73	7.01	515	0.4	0.03	11.1	0.26	5
7/5/2004	21:45	29.61	7.01	519	0.3	0.02	11	0.26	5
7/5/2004	22:00	29.6	7.01	522	0.3	0.03	11	0.27	5
7/5/2004	22:15	29.63	7.01	525	1.4	0.1	11.1	0.27	5
7/5/2004	22:30	29.61	7	530	1.3	0.1	11.1	0.27	5
7/5/2004	22:45	29.62	7.01	532	0.9	0.07	11.1	0.27	5

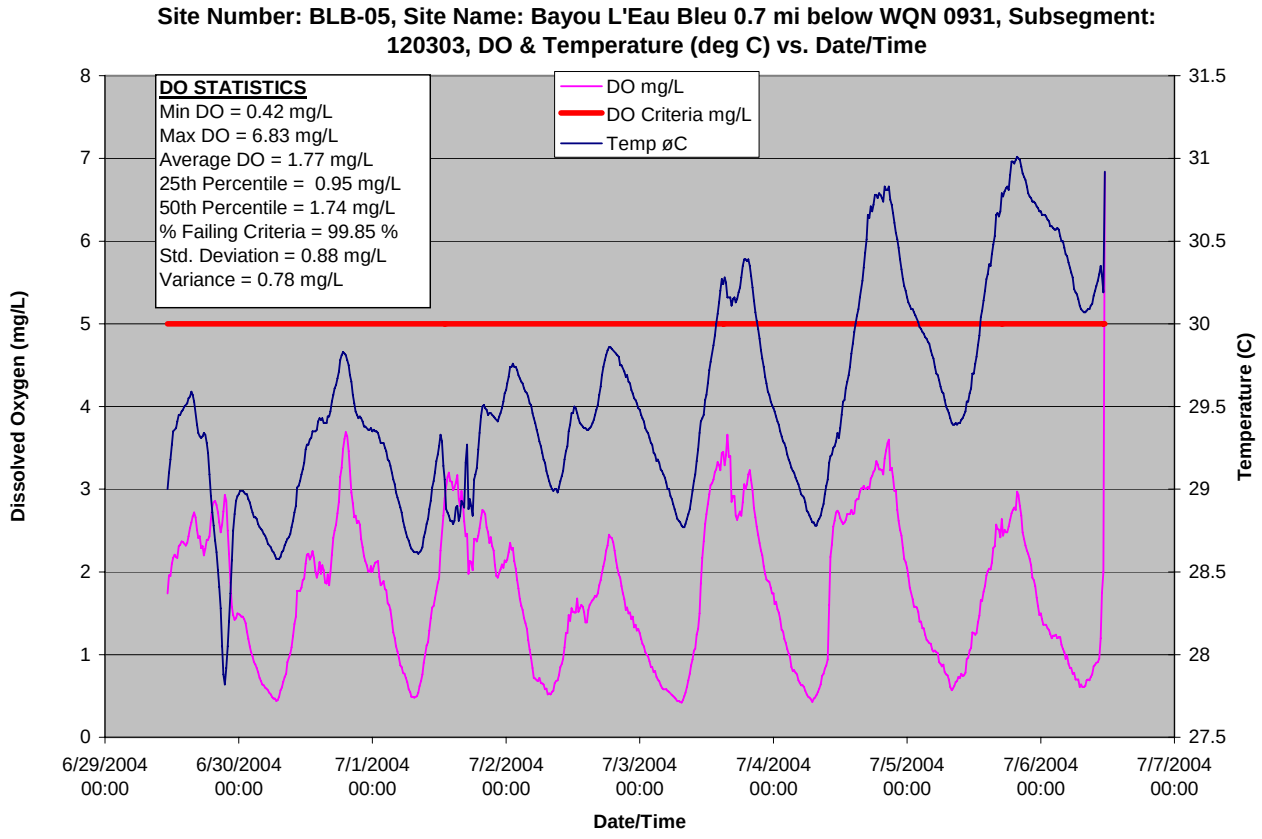
7/5/2004	23:00	29.6	7.01	536	0.4	0.03	11	0.27	5
7/5/2004	23:15	29.62	7.01	540	0.9	0.07	11.1	0.27	5
7/5/2004	23:30	29.6	7	543	1.4	0.1	11.1	0.28	5
7/5/2004	23:45	29.68	7.01	545	0.6	0.05	11.1	0.28	5
7/6/2004	0:00	29.7	7.01	548	1	0.08	11.1	0.28	5
7/6/2004	0:15	29.7	7.01	550	1.1	0.08	11.1	0.28	5
7/6/2004	0:30	29.73	7.01	553	1.6	0.12	11.1	0.28	5
7/6/2004	0:45	29.7	7.01	556	0.5	0.04	11.1	0.28	5
7/6/2004	1:00	29.89	7.01	557	0.6	0.05	11.1	0.28	5
7/6/2004	1:15	30.06	7.01	555	1.2	0.09	11.1	0.28	5
7/6/2004	1:30	30.22	7	560	0.6	0.05	11.1	0.29	5
7/6/2004	1:45	30.26	6.99	561	0.5	0.04	11.1	0.29	5
7/6/2004	2:00	30.18	6.98	565	0.6	0.05	11.1	0.29	5
7/6/2004	2:15	30.15	6.98	567	0.9	0.07	11.1	0.29	5
7/6/2004	2:30	30.13	6.98	567	1.3	0.1	11.1	0.29	5
7/6/2004	2:45	30.12	6.99	569	1.6	0.12	11.1	0.29	5
7/6/2004	3:00	30.09	6.98	571	0.6	0.05	11.1	0.29	5
7/6/2004	3:15	30.06	6.98	573	1.3	0.1	11.1	0.29	5
7/6/2004	3:30	30.04	6.98	574	0.5	0.04	11.1	0.29	5
7/6/2004	3:45	30.04	6.98	576	0.9	0.06	11.1	0.29	5
7/6/2004	4:00	30.04	6.98	578	0.9	0.06	11.1	0.29	5
7/6/2004	4:15	30.12	6.99	569	1	0.08	11.1	0.29	5
7/6/2004	4:30	30.1	6.98	573	0.5	0.04	11.1	0.29	5
7/6/2004	4:45	30.04	6.97	576	1.1	0.08	11.1	0.29	5
7/6/2004	5:00	29.99	6.97	578	1.5	0.12	11.1	0.3	5
7/6/2004	5:15	30.05	6.98	578	0.5	0.04	11.1	0.3	5
7/6/2004	5:30	29.99	6.98	581	0.6	0.05	11.1	0.3	5
7/6/2004	5:45	29.91	6.98	593	0.7	0.05	11.1	0.3	5
7/6/2004	6:00	29.8	6.98	592	0.5	0.04	11.1	0.3	5
7/6/2004	6:15	29.85	6.99	571	1.1	0.08	11.1	0.29	5
7/6/2004	6:30	29.76	6.99	573	0.5	0.04	11.1	0.29	5
7/6/2004	6:45	29.73	6.99	571	1.6	0.12	11.1	0.29	5
7/6/2004	7:00	29.7	6.99	573	0.9	0.07	11.1	0.29	5
7/6/2004	7:15	29.75	6.99	539	0.5	0.04	11.1	0.27	5
7/6/2004	7:30	29.67	6.99	542	1	0.08	11.1	0.28	5
7/6/2004	7:45	29.63	6.99	544	0.5	0.04	11.1	0.28	5
7/6/2004	8:00	29.6	6.99	545	0.5	0.04	11.1	0.28	5
7/6/2004	8:15	29.58	6.99	547	0.4	0.03	11.1	0.28	5
7/6/2004	8:30	29.57	6.99	550	0.5	0.04	11.1	0.28	5
7/6/2004	8:45	29.56	6.99	552	1	0.08	11.1	0.28	5
7/6/2004	9:00	29.55	6.98	554	1.7	0.13	11.1	0.28	5
7/6/2004	9:15	29.54	6.98	556	0.9	0.07	11.1	0.28	5
7/6/2004	9:30	29.54	6.98	558	1.6	0.12	11.1	0.28	5
7/6/2004	9:45	29.53	6.97	559	1.6	0.12	11.1	0.28	5
7/6/2004	10:00	29.52	6.97	561	0.4	0.03	11.1	0.29	5

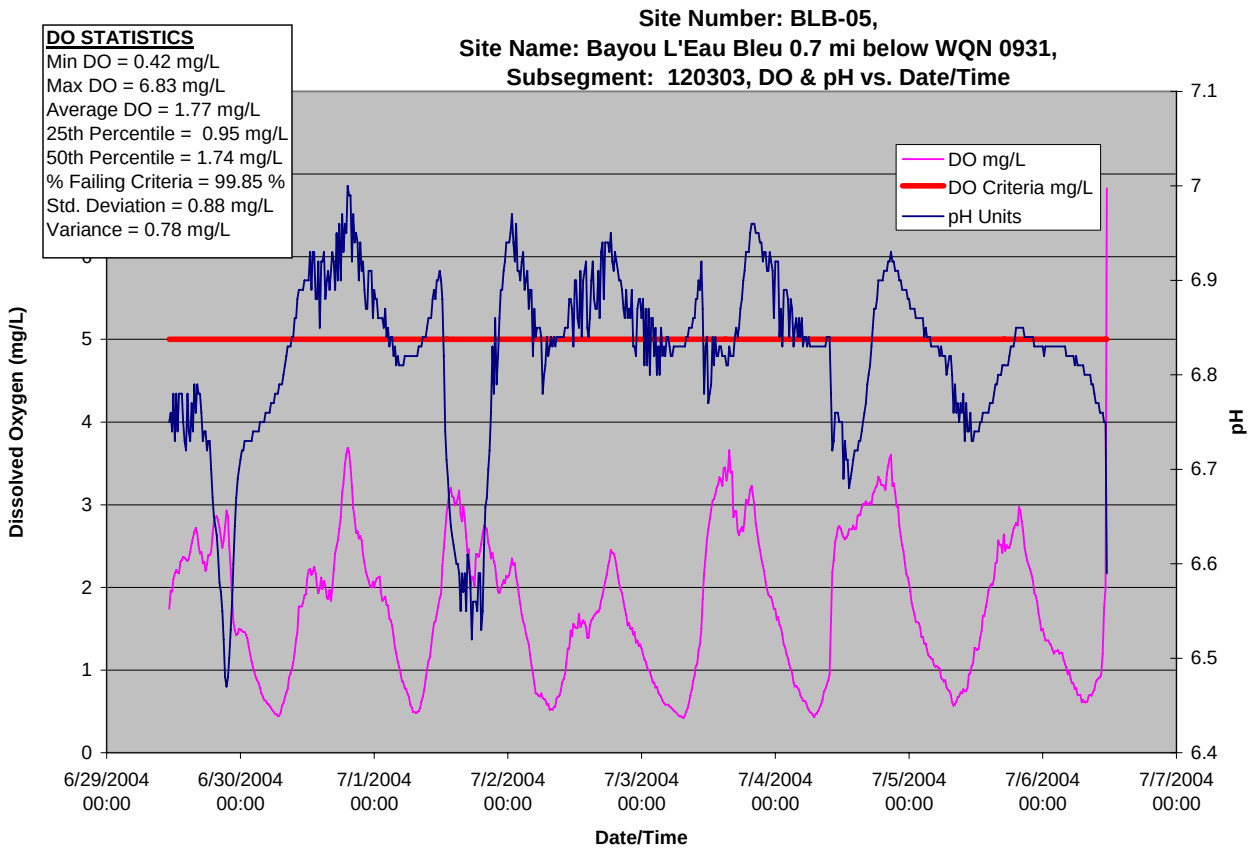
7/6/2004	10:15	29.52	6.97	562	1.5	0.12	11.1	0.29	5
7/6/2004	10:30	29.61	6.96	541	0.5	0.04	11.1	0.27	5
7/6/2004	10:45	29.54	6.94	543	1.5	0.12	11.1	0.28	5
7/6/2004	11:00	29.52	6.94	524	0.5	0.04	11.1	0.27	5
7/6/2004	11:15	29.55	6.93	537	1.1	0.08	11.1	0.27	5
7/6/2004	11:30	29.54	6.95	541	0.6	0.05	11.1	0.28	5
7/6/2004	11:45	29.63	6.94	560	1.5	0.12	11.1	0.29	5
7/6/2004	12:00	29.6	6.96	569	1	0.08	11.1	0.29	5

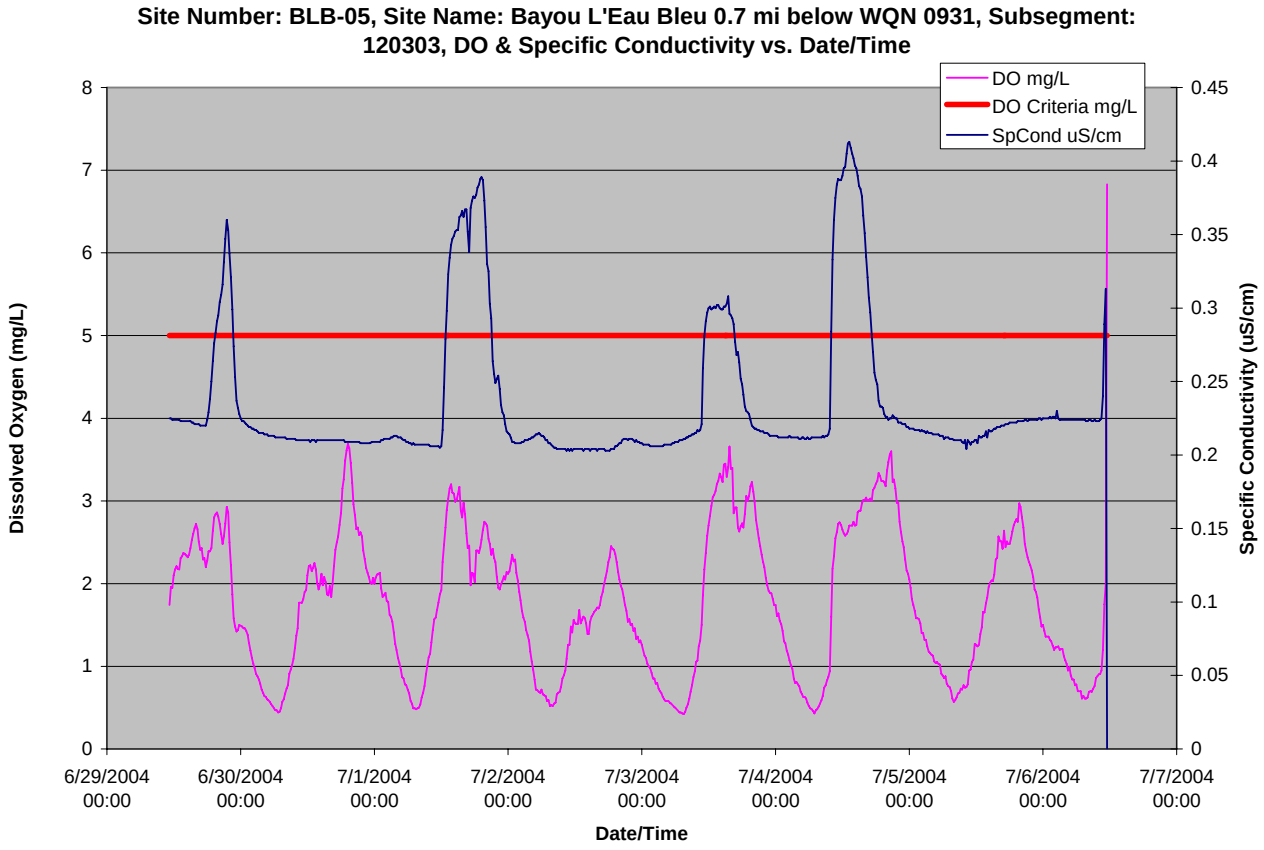
Site Number: BLB-05 Site Name: Bayou L'Eau Bleu 0.7 mi below WQN 0931
Subsegment #: 120303 Date: 6/29/2004

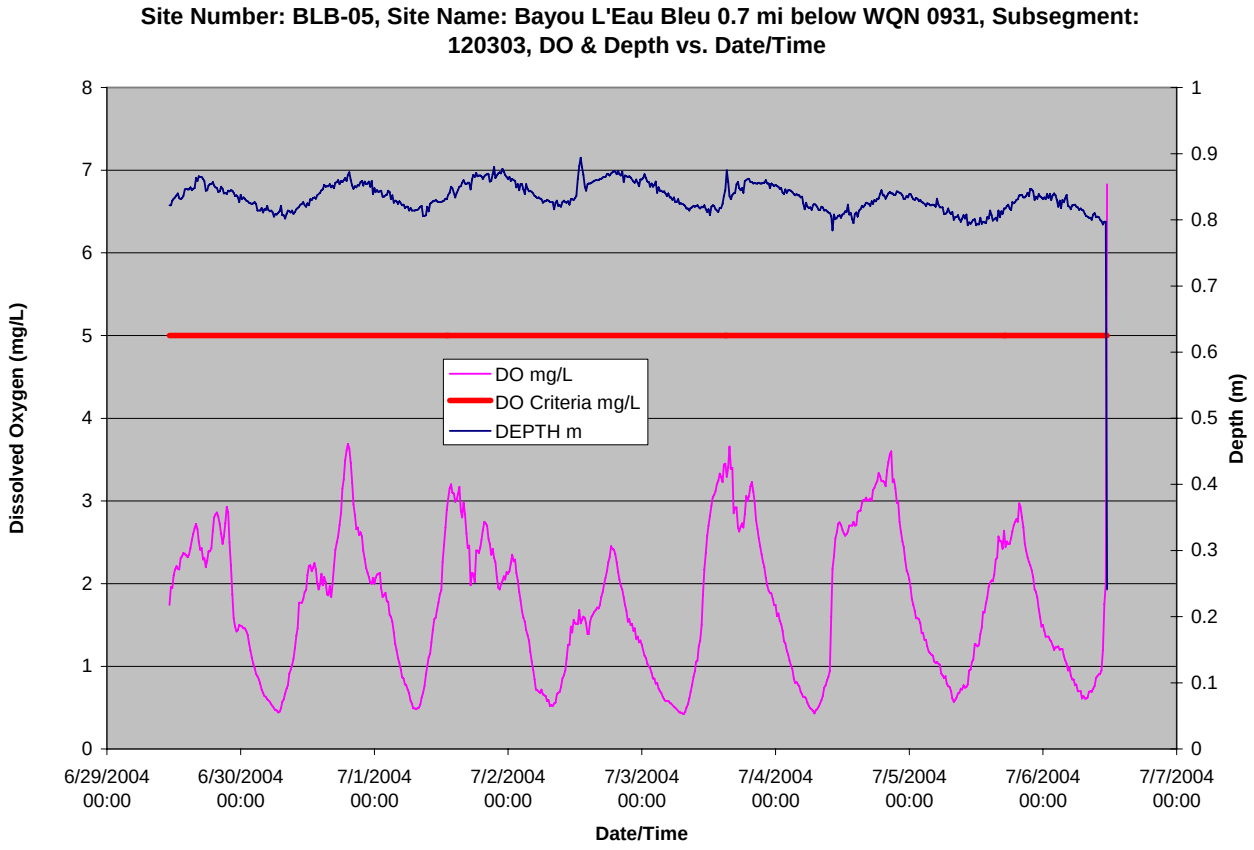
	Temp deg C	pH	SpCond uS/cm	Depth	DO %	DO mg/L
Minimum	27.82	6.47	0.00	0.24	5.40	0.42
Maximum	31.01	7.00	0.41	0.89	91.80	6.83
Average	29.54	6.82	0.23	0.83	23.26	1.77
25th Percentile	29.06	6.78	0.21	0.82	12.50	0.95
30th Percentile	29.18	6.80	0.21	0.82	14.40	1.10
40th Percentile	29.35	6.82	0.21	0.83	18.82	1.44
50th Percentile	29.44	6.83	0.21	0.83	23.05	1.75
Standard Deviation	0.63	0.09	0.05	0.03	11.75	0.88
Variance	0.40	0.01	0.00	0.00	138.03	0.78

Data Row Count	674
Total Values Failing DO Criteria	673
Percent failing DO Criteria	99.85 %


Site Number: BLB-05, Site Name: Bayou L'Eau Bleu 0.7 mi below WQN 0931, Subsegment: 120303, DO & Temperature (deg C) vs. Date/Time
DO STATISTICS
Min DO = 0.42 mg/L
Max DO = 6.83 mg/L
Average DO = 1.77 mg/L
25th Percentile = 0.95 mg/L
50th Percentile = 1.74 mg/L
% Failing Criteria = 99.85 %
Std. Deviation = 0.88 mg/L
Variance = 0.78 mg/L
DO mg/L
DO Criteria mg/L
Temp øC
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
0
1
2
3
4
5
6
7
8
27.5
28
28.5
29
29.5
30
30.5
31
31.5
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BLB-05,
Site Name: Bayou L'Eau Bleu 0.7 mi below WQN 0931,
Subsegment: 120303, DO & pH vs. Date/Time
DO STATISTICS
Min DO = 0.42 mg/L
Max DO = 6.83 mg/L
Average DO = 1.77 mg/L
25th Percentile = 0.95 mg/L
50th Percentile = 1.74 mg/L
% Failing Criteria = 99.85 %
Std. Deviation = 0.88 mg/L
Variance = 0.78 mg/L
DO mg/L
DO Criteria mg/L
pH Units
Dissolved Oxygen (mg/L)
pH
Date/Time
0
1
2
3
4
5
6.4
6.5
6.6
6.7
6.8
6.9
7
7.1
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BLB-05, Site Name: Bayou L'Eau Bleu 0.7 mi below WQN 0931, Subsegment: 120303, DO & Specific Conductivity vs. Date/Time
DO mg/L
DO Criteria mg/L
SpCond uS/cm
Dissolved Oxygen (mg/L)
Specific Conductivity (uS/cm)
Date/Time
0
1
2
3
4
5
6
7
8
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BLB-05, Site Name: Bayou L'Eau Bleu 0.7 mi below WQN 0931, Subsegment: 120303, DO & Depth vs. Date/Time
Dissolved Oxygen (mg/L)
Depth (m)
Date/Time
DO mg/L
DO Criteria mg/L
DEPTH m
0
1
2
3
4
5
6
7
8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00

Site BLB-05 Continuous Monitoring Data									
Date	Time	Temp	pH	Cond	Depth	DO %	DO	Sal	DO Criteria
		°C	units	uS/cm	m	Sat	mg/L	ppt	mg/L
6/29/2004	11:15	29	6.75	0.225	0.822	22.7	1.74	0.11	5
6/29/2004	11:30	29.1	6.76	0.225	0.822	25.6	1.96	0.11	5
6/29/2004	11:45	29.18	6.74	0.224	0.829	25.4	1.95	0.1	5
6/29/2004	12:00	29.27	6.78	0.224	0.832	27.5	2.1	0.1	5
6/29/2004	12:15	29.35	6.73	0.224	0.834	28.4	2.17	0.1	5
6/29/2004	12:30	29.36	6.78	0.224	0.837	28.9	2.21	0.1	5
6/29/2004	12:45	29.37	6.74	0.224	0.84	28.5	2.18	0.1	5
6/29/2004	13:00	29.41	6.78	0.224	0.833	28.4	2.17	0.1	5
6/29/2004	13:15	29.45	6.78	0.223	0.831	30.3	2.31	0.1	5
6/29/2004	13:30	29.45	6.78	0.223	0.833	30.6	2.33	0.1	5
6/29/2004	13:45	29.47	6.75	0.223	0.836	31	2.37	0.1	5
6/29/2004	14:00	29.48	6.73	0.223	0.846	30.9	2.36	0.1	5
6/29/2004	14:15	29.5	6.72	0.223	0.847	30.7	2.34	0.1	5
6/29/2004	14:30	29.51	6.78	0.223	0.846	30.5	2.32	0.1	5
6/29/2004	14:45	29.52	6.74	0.223	0.846	30.8	2.35	0.1	5
6/29/2004	15:00	29.55	6.73	0.223	0.849	31.9	2.43	0.1	5
6/29/2004	15:15	29.56	6.77	0.222	0.845	33.2	2.53	0.1	5
6/29/2004	15:30	29.59	6.74	0.222	0.847	34.2	2.6	0.1	5
6/29/2004	15:45	29.57	6.79	0.221	0.848	35.2	2.67	0.1	5
6/29/2004	16:00	29.53	6.76	0.221	0.863	35.7	2.72	0.1	5
6/29/2004	16:15	29.46	6.79	0.221	0.859	34.9	2.66	0.1	5
6/29/2004	16:30	29.39	6.78	0.221	0.866	32.9	2.51	0.1	5
6/29/2004	16:45	29.34	6.78	0.22	0.865	31.6	2.41	0.1	5
6/29/2004	17:00	29.32	6.76	0.22	0.865	31.8	2.43	0.1	5
6/29/2004	17:15	29.31	6.73	0.22	0.862	30	2.29	0.1	5
6/29/2004	17:30	29.32	6.74	0.22	0.859	30.2	2.31	0.1	5
6/29/2004	17:45	29.34	6.74	0.22	0.844	28.8	2.2	0.1	5
6/29/2004	18:00	29.33	6.72	0.224	0.845	29.8	2.28	0.1	5
6/29/2004	18:15	29.28	6.73	0.229	0.852	31.2	2.39	0.11	5
6/29/2004	18:30	29.22	6.73	0.238	0.854	31.2	2.39	0.11	5
6/29/2004	18:45	29.09	6.7	0.25	0.854	31.7	2.43	0.12	5
6/29/2004	19:00	28.96	6.67	0.264	0.857	34.3	2.64	0.13	5
6/29/2004	19:15	28.86	6.65	0.276	0.852	36.4	2.8	0.13	5
6/29/2004	19:30	28.78	6.64	0.283	0.849	36.8	2.84	0.14	5
6/29/2004	19:45	28.69	6.63	0.291	0.848	37.1	2.86	0.14	5
6/29/2004	20:00	28.62	6.61	0.295	0.842	36.3	2.81	0.14	5
6/29/2004	20:15	28.51	6.58	0.304	0.843	35.1	2.72	0.15	5
6/29/2004	20:30	28.41	6.57	0.309	0.85	33.4	2.6	0.15	5
6/29/2004	20:45	28.28	6.55	0.316	0.847	31.9	2.48	0.15	5
6/29/2004	21:00	28.05	6.52	0.331	0.84	32.9	2.57	0.16	5
6/29/2004	21:15	27.88	6.48	0.347	0.841	34.9	2.73	0.17	5
6/29/2004	21:30	27.82	6.47	0.36	0.839	37.4	2.93	0.18	5
6/29/2004	21:45	27.92	6.48	0.353	0.844	36.6	2.86	0.17	5

6/29/2004	22:00	28.05	6.5	0.337	0.843	32	2.5	0.17	5
6/29/2004	22:15	28.2	6.53	0.321	0.845	28.5	2.22	0.16	5
6/29/2004	22:30	28.37	6.56	0.299	0.844	24	1.87	0.14	5
6/29/2004	22:45	28.57	6.6	0.274	0.841	20.5	1.58	0.13	5
6/29/2004	23:00	28.75	6.64	0.253	0.836	19.2	1.48	0.12	5
6/29/2004	23:15	28.85	6.67	0.237	0.837	18.4	1.42	0.11	5
6/29/2004	23:30	28.93	6.69	0.232	0.834	18.8	1.44	0.11	5
6/29/2004	23:45	28.96	6.7	0.228	0.827	19.5	1.5	0.11	5
6/30/2004	0:00	28.97	6.71	0.225	0.838	19.4	1.49	0.11	5
6/30/2004	0:15	28.99	6.72	0.223	0.831	19.2	1.48	0.1	5
6/30/2004	0:30	28.99	6.72	0.223	0.834	19	1.46	0.1	5
6/30/2004	0:45	28.99	6.73	0.222	0.832	19	1.46	0.1	5
6/30/2004	1:00	28.98	6.73	0.221	0.829	18.6	1.43	0.1	5
6/30/2004	1:15	28.97	6.73	0.22	0.828	18	1.38	0.1	5
6/30/2004	1:30	28.97	6.73	0.219	0.826	16.6	1.28	0.1	5
6/30/2004	1:45	28.94	6.73	0.219	0.825	15.5	1.19	0.1	5
6/30/2004	2:00	28.92	6.73	0.218	0.824	14.4	1.1	0.1	5
6/30/2004	2:15	28.89	6.74	0.218	0.825	13.4	1.03	0.1	5
6/30/2004	2:30	28.86	6.74	0.217	0.827	12.7	0.98	0.1	5
6/30/2004	2:45	28.83	6.74	0.217	0.824	11.8	0.91	0.1	5
6/30/2004	3:00	28.83	6.74	0.216	0.814	11.4	0.88	0.1	5
6/30/2004	3:15	28.82	6.74	0.215	0.814	10.9	0.84	0.1	5
6/30/2004	3:30	28.79	6.75	0.215	0.814	10.2	0.79	0.1	5
6/30/2004	3:45	28.77	6.75	0.215	0.818	9.3	0.72	0.1	5
6/30/2004	4:00	28.76	6.75	0.215	0.811	8.8	0.68	0.1	5
6/30/2004	4:15	28.75	6.75	0.214	0.816	8.4	0.64	0.1	5
6/30/2004	4:30	28.73	6.76	0.214	0.815	8.2	0.63	0.1	5
6/30/2004	4:45	28.72	6.76	0.214	0.821	7.8	0.6	0.1	5
6/30/2004	5:00	28.7	6.76	0.213	0.815	7.7	0.59	0.1	5
6/30/2004	5:15	28.67	6.76	0.213	0.813	7.3	0.57	0.1	5
6/30/2004	5:30	28.66	6.77	0.213	0.814	7	0.54	0.1	5
6/30/2004	5:45	28.65	6.77	0.213	0.812	6.8	0.52	0.1	5
6/30/2004	6:00	28.63	6.77	0.213	0.805	6.4	0.49	0.1	5
6/30/2004	6:15	28.62	6.78	0.212	0.809	6.1	0.47	0.1	5
6/30/2004	6:30	28.6	6.78	0.212	0.808	6.1	0.47	0.1	5
6/30/2004	6:45	28.58	6.78	0.212	0.81	5.7	0.44	0.1	5
6/30/2004	7:00	28.58	6.79	0.212	0.813	5.8	0.45	0.1	5
6/30/2004	7:15	28.58	6.79	0.212	0.821	6.3	0.49	0.1	5
6/30/2004	7:30	28.59	6.79	0.212	0.807	7.4	0.57	0.1	5
6/30/2004	7:45	28.62	6.8	0.212	0.807	7.7	0.6	0.1	5
6/30/2004	8:00	28.63	6.81	0.212	0.802	8.6	0.67	0.1	5
6/30/2004	8:15	28.66	6.82	0.211	0.809	9.5	0.73	0.1	5
6/30/2004	8:30	28.68	6.83	0.211	0.814	9.9	0.77	0.1	5
6/30/2004	8:45	28.7	6.83	0.211	0.813	11.8	0.91	0.1	5
6/30/2004	9:00	28.71	6.83	0.211	0.811	12.4	0.96	0.1	5

6/30/2004	9:15	28.73	6.84	0.211	0.814	13	1.01	0.1	5
6/30/2004	9:30	28.77	6.84	0.211	0.809	14.1	1.09	0.1	5
6/30/2004	9:45	28.81	6.86	0.211	0.812	15.9	1.22	0.1	5
6/30/2004	10:00	28.86	6.86	0.21	0.816	17.7	1.37	0.1	5
6/30/2004	10:15	28.9	6.88	0.21	0.818	19	1.46	0.1	5
6/30/2004	10:30	29.01	6.89	0.21	0.82	23	1.77	0.1	5
6/30/2004	10:45	29.02	6.89	0.21	0.823	23.1	1.77	0.1	5
6/30/2004	11:00	29.05	6.89	0.21	0.824	23.1	1.77	0.1	5
6/30/2004	11:15	29.09	6.89	0.21	0.827	23.5	1.81	0.1	5
6/30/2004	11:30	29.12	6.9	0.21	0.822	24.8	1.9	0.1	5
6/30/2004	11:45	29.16	6.9	0.21	0.82	25	1.92	0.1	5
6/30/2004	12:00	29.24	6.9	0.21	0.825	27.5	2.1	0.1	5
6/30/2004	12:15	29.27	6.9	0.21	0.822	28.9	2.21	0.1	5
6/30/2004	12:30	29.27	6.93	0.209	0.831	29	2.22	0.1	5
6/30/2004	12:45	29.3	6.89	0.21	0.83	28.1	2.15	0.1	5
6/30/2004	13:00	29.31	6.93	0.21	0.833	28.7	2.19	0.1	5
6/30/2004	13:15	29.35	6.93	0.21	0.834	29.4	2.25	0.1	5
6/30/2004	13:30	29.35	6.88	0.209	0.832	28.4	2.17	0.1	5
6/30/2004	13:45	29.35	6.88	0.21	0.837	26.4	2.01	0.1	5
6/30/2004	14:00	29.36	6.92	0.21	0.839	25.2	1.93	0.1	5
6/30/2004	14:15	29.41	6.85	0.21	0.841	26.1	1.99	0.1	5
6/30/2004	14:30	29.43	6.92	0.21	0.845	27.8	2.12	0.1	5
6/30/2004	14:45	29.42	6.92	0.21	0.846	26	1.98	0.1	5
6/30/2004	15:00	29.43	6.93	0.21	0.853	27.3	2.08	0.1	5
6/30/2004	15:15	29.4	6.88	0.21	0.85	26.4	2.02	0.1	5
6/30/2004	15:30	29.4	6.9	0.21	0.851	24.5	1.87	0.1	5
6/30/2004	15:45	29.4	6.91	0.21	0.851	24.4	1.86	0.1	5
6/30/2004	16:00	29.44	6.89	0.21	0.854	25.8	1.97	0.1	5
6/30/2004	16:15	29.44	6.91	0.21	0.849	24.2	1.84	0.1	5
6/30/2004	16:30	29.47	6.93	0.21	0.852	26.1	1.99	0.1	5
6/30/2004	16:45	29.53	6.92	0.21	0.848	29	2.21	0.1	5
6/30/2004	17:00	29.57	6.89	0.21	0.856	31.7	2.41	0.1	5
6/30/2004	17:15	29.61	6.95	0.21	0.857	32.9	2.5	0.1	5
6/30/2004	17:30	29.63	6.9	0.21	0.86	33.7	2.57	0.1	5
6/30/2004	17:45	29.67	6.96	0.21	0.854	35.7	2.71	0.1	5
6/30/2004	18:00	29.71	6.9	0.21	0.859	37.5	2.85	0.1	5
6/30/2004	18:15	29.78	6.97	0.21	0.857	41.6	3.15	0.1	5
6/30/2004	18:30	29.81	6.93	0.21	0.86	43	3.26	0.1	5
6/30/2004	18:45	29.83	6.96	0.209	0.863	46	3.49	0.1	5
6/30/2004	19:00	29.82	6.95	0.209	0.859	47.6	3.61	0.1	5
6/30/2004	19:15	29.81	7	0.209	0.868	48.6	3.69	0.1	5
6/30/2004	19:30	29.78	6.99	0.209	0.872	48	3.64	0.1	5
6/30/2004	19:45	29.75	6.99	0.209	0.86	45.6	3.46	0.1	5
6/30/2004	20:00	29.69	6.92	0.209	0.852	42.5	3.22	0.1	5
6/30/2004	20:15	29.65	6.97	0.209	0.847	39	2.96	0.1	5

6/30/2004	20:30	29.57	6.94	0.209	0.851	37.2	2.83	0.1	5
6/30/2004	20:45	29.52	6.95	0.209	0.849	34.9	2.66	0.1	5
6/30/2004	21:00	29.47	6.94	0.209	0.853	35.2	2.68	0.1	5
6/30/2004	21:15	29.45	6.9	0.209	0.852	33.9	2.59	0.1	5
6/30/2004	21:30	29.43	6.94	0.208	0.857	34.3	2.62	0.1	5
6/30/2004	21:45	29.44	6.91	0.208	0.859	33.7	2.57	0.1	5
6/30/2004	22:00	29.43	6.92	0.208	0.852	31.5	2.4	0.1	5
6/30/2004	22:15	29.41	6.89	0.208	0.858	30.1	2.3	0.1	5
6/30/2004	22:30	29.38	6.87	0.208	0.854	28.7	2.19	0.1	5
6/30/2004	22:45	29.38	6.87	0.208	0.855	27.9	2.13	0.1	5
6/30/2004	23:00	29.37	6.91	0.208	0.858	27.3	2.08	0.1	5
6/30/2004	23:15	29.36	6.91	0.208	0.85	26.3	2.01	0.1	5
6/30/2004	23:30	29.36	6.91	0.209	0.859	26.3	2	0.1	5
6/30/2004	23:45	29.37	6.86	0.209	0.839	27.1	2.07	0.1	5
7/1/2004	0:00	29.35	6.89	0.209	0.848	26.2	2	0.1	5
7/1/2004	0:15	29.36	6.88	0.209	0.842	27.1	2.07	0.1	5
7/1/2004	0:30	29.35	6.88	0.209	0.845	27.6	2.11	0.1	5
7/1/2004	0:45	29.35	6.86	0.209	0.842	27.8	2.12	0.1	5
7/1/2004	1:00	29.34	6.86	0.209	0.843	27.9	2.13	0.1	5
7/1/2004	1:15	29.31	6.86	0.21	0.844	25.4	1.94	0.1	5
7/1/2004	1:30	29.28	6.86	0.21	0.835	24	1.84	0.1	5
7/1/2004	1:45	29.28	6.85	0.211	0.835	24.3	1.86	0.1	5
7/1/2004	2:00	29.28	6.87	0.211	0.837	24.8	1.89	0.1	5
7/1/2004	2:15	29.25	6.84	0.211	0.838	23.4	1.79	0.1	5
7/1/2004	2:30	29.23	6.85	0.211	0.844	23.3	1.78	0.1	5
7/1/2004	2:45	29.18	6.83	0.211	0.842	21.1	1.62	0.1	5
7/1/2004	3:00	29.17	6.84	0.212	0.831	20.9	1.6	0.1	5
7/1/2004	3:15	29.14	6.84	0.212	0.837	20.1	1.54	0.1	5
7/1/2004	3:30	29.1	6.82	0.213	0.826	18.4	1.41	0.1	5
7/1/2004	3:45	29.06	6.83	0.213	0.829	16.5	1.27	0.1	5
7/1/2004	4:00	29.03	6.81	0.213	0.828	15.7	1.2	0.1	5
7/1/2004	4:15	28.98	6.82	0.212	0.824	14.3	1.1	0.1	5
7/1/2004	4:30	28.95	6.81	0.212	0.828	13.5	1.04	0.1	5
7/1/2004	4:45	28.92	6.81	0.212	0.825	12.5	0.96	0.1	5
7/1/2004	5:00	28.89	6.81	0.211	0.822	11.4	0.87	0.1	5
7/1/2004	5:15	28.86	6.81	0.21	0.823	11	0.85	0.1	5
7/1/2004	5:30	28.81	6.82	0.21	0.818	10.1	0.78	0.1	5
7/1/2004	5:45	28.77	6.82	0.209	0.82	10	0.77	0.1	5
7/1/2004	6:00	28.74	6.82	0.209	0.82	9.4	0.72	0.1	5
7/1/2004	6:15	28.71	6.82	0.208	0.814	8.6	0.67	0.1	5
7/1/2004	6:30	28.69	6.82	0.208	0.818	7.5	0.58	0.1	5
7/1/2004	6:45	28.66	6.82	0.207	0.814	7.1	0.55	0.1	5
7/1/2004	7:00	28.64	6.82	0.208	0.814	6.4	0.49	0.1	5
7/1/2004	7:15	28.63	6.82	0.207	0.814	6.4	0.49	0.1	5
7/1/2004	7:30	28.62	6.82	0.207	0.815	6.2	0.48	0.1	5

7/1/2004	7:45	28.62	6.82	0.207	0.815	6.3	0.49	0.1	5
7/1/2004	8:00	28.62	6.83	0.207	0.817	6.5	0.5	0.1	5
7/1/2004	8:15	28.61	6.83	0.207	0.82	7	0.54	0.1	5
7/1/2004	8:30	28.62	6.83	0.207	0.821	8	0.62	0.1	5
7/1/2004	8:45	28.63	6.84	0.207	0.806	8.7	0.68	0.1	5
7/1/2004	9:00	28.65	6.84	0.207	0.806	9.9	0.76	0.1	5
7/1/2004	9:15	28.71	6.84	0.207	0.807	11.6	0.9	0.1	5
7/1/2004	9:30	28.74	6.85	0.207	0.82	13	1	0.1	5
7/1/2004	9:45	28.79	6.86	0.207	0.813	14.4	1.11	0.1	5
7/1/2004	10:00	28.82	6.86	0.206	0.824	14.9	1.15	0.1	5
7/1/2004	10:15	28.88	6.86	0.206	0.826	16.8	1.29	0.1	5
7/1/2004	10:30	28.93	6.88	0.206	0.828	18.7	1.44	0.09	5
7/1/2004	10:45	29.01	6.89	0.206	0.828	20.5	1.57	0.09	5
7/1/2004	11:00	29.05	6.88	0.206	0.83	20.7	1.59	0.09	5
7/1/2004	11:15	29.1	6.9	0.206	0.828	22	1.68	0.09	5
7/1/2004	11:30	29.17	6.9	0.206	0.827	23.1	1.77	0.09	5
7/1/2004	11:45	29.21	6.91	0.205	0.827	24.5	1.87	0.09	5
7/1/2004	12:00	29.26	6.9	0.206	0.827	25.1	1.92	0.09	5
7/1/2004	12:15	29.33	6.88	0.217	0.828	29.5	2.26	0.1	5
7/1/2004	12:30	29.29	6.82	0.246	0.829	32.3	2.47	0.12	5
7/1/2004	12:45	29.14	6.74	0.279	0.832	35	2.68	0.13	5
7/1/2004	13:00	29.06	6.71	0.298	0.831	37.6	2.89	0.14	5
7/1/2004	13:15	28.88	6.69	0.323	0.838	39.3	3.03	0.16	5
7/1/2004	13:30	28.86	6.66	0.334	0.841	40.9	3.15	0.16	5
7/1/2004	13:45	28.84	6.64	0.343	0.85	41.6	3.2	0.17	5
7/1/2004	14:00	28.81	6.63	0.347	0.848	40.3	3.1	0.17	5
7/1/2004	14:15	28.81	6.62	0.349	0.841	40.1	3.09	0.17	5
7/1/2004	14:30	28.79	6.61	0.352	0.834	38.8	2.99	0.17	5
7/1/2004	14:45	28.81	6.6	0.353	0.841	39.1	3.02	0.17	5
7/1/2004	15:00	28.89	6.6	0.353	0.845	40	3.08	0.17	5
7/1/2004	15:15	28.9	6.59	0.362	0.85	41.2	3.17	0.18	5
7/1/2004	15:30	28.81	6.55	0.363	0.851	37.4	2.88	0.18	5
7/1/2004	15:45	28.84	6.59	0.366	0.856	36.4	2.8	0.18	5
7/1/2004	16:00	28.93	6.57	0.362	0.86	38.8	2.98	0.18	5
7/1/2004	16:15	28.91	6.59	0.367	0.855	37	2.84	0.18	5
7/1/2004	16:30	28.89	6.55	0.367	0.854	34	2.61	0.18	5
7/1/2004	16:45	29.16	6.61	0.352	0.856	31.7	2.43	0.17	5
7/1/2004	17:00	29.27	6.6	0.338	0.856	32.2	2.46	0.17	5
7/1/2004	17:15	28.88	6.58	0.368	0.846	25.7	1.98	0.18	5
7/1/2004	17:30	28.94	6.52	0.373	0.861	27.7	2.13	0.18	5
7/1/2004	17:45	28.9	6.56	0.376	0.868	27.5	2.12	0.19	5
7/1/2004	18:00	28.84	6.56	0.375	0.865	26.2	2.02	0.19	5
7/1/2004	18:15	29.06	6.56	0.377	0.871	31.2	2.4	0.19	5
7/1/2004	18:30	29.09	6.55	0.382	0.866	31.2	2.4	0.19	5
7/1/2004	18:45	29.13	6.59	0.384	0.867	31	2.37	0.19	5

7/1/2004	19:00	29.24	6.59	0.388	0.867	31.9	2.44	0.19	5
7/1/2004	19:15	29.34	6.53	0.389	0.866	33.1	2.53	0.19	5
7/1/2004	19:30	29.44	6.55	0.387	0.862	34.8	2.65	0.19	5
7/1/2004	19:45	29.5	6.62	0.373	0.866	36.1	2.75	0.18	5
7/1/2004	20:00	29.51	6.66	0.355	0.868	35.8	2.73	0.18	5
7/1/2004	20:15	29.49	6.67	0.33	0.869	35.4	2.7	0.16	5
7/1/2004	20:30	29.48	6.7	0.325	0.869	33.3	2.54	0.16	5
7/1/2004	20:45	29.45	6.72	0.303	0.858	32.5	2.48	0.15	5
7/1/2004	21:00	29.46	6.76	0.293	0.859	30.8	2.35	0.14	5
7/1/2004	21:15	29.46	6.83	0.264	0.869	31.7	2.42	0.13	5
7/1/2004	21:30	29.45	6.78	0.255	0.88	30.3	2.31	0.12	5
7/1/2004	21:45	29.44	6.86	0.249	0.863	29.6	2.26	0.12	5
7/1/2004	22:00	29.43	6.79	0.252	0.867	27.3	2.08	0.12	5
7/1/2004	22:15	29.42	6.82	0.254	0.87	25.5	1.95	0.12	5
7/1/2004	22:30	29.41	6.86	0.245	0.872	25.3	1.93	0.12	5
7/1/2004	22:45	29.44	6.89	0.234	0.87	26.2	1.99	0.11	5
7/1/2004	23:00	29.46	6.89	0.229	0.877	26.6	2.03	0.11	5
7/1/2004	23:15	29.49	6.91	0.227	0.873	27.5	2.09	0.11	5
7/1/2004	23:30	29.53	6.92	0.221	0.868	26.9	2.05	0.1	5
7/1/2004	23:45	29.58	6.94	0.216	0.865	28.1	2.14	0.1	5
7/2/2004	0:00	29.6	6.94	0.215	0.862	27.8	2.12	0.1	5
7/2/2004	0:15	29.64	6.94	0.214	0.865	28.3	2.15	0.1	5
7/2/2004	0:30	29.68	6.95	0.212	0.859	29.5	2.24	0.1	5
7/2/2004	0:45	29.74	6.97	0.209	0.862	30.9	2.35	0.1	5
7/2/2004	1:00	29.74	6.94	0.209	0.86	29.9	2.27	0.1	5
7/2/2004	1:15	29.76	6.92	0.208	0.859	30.2	2.29	0.1	5
7/2/2004	1:30	29.74	6.96	0.208	0.849	28.1	2.13	0.1	5
7/2/2004	1:45	29.74	6.91	0.208	0.854	26.9	2.04	0.1	5
7/2/2004	2:00	29.72	6.91	0.208	0.845	25	1.9	0.1	5
7/2/2004	2:15	29.69	6.9	0.208	0.854	23.7	1.8	0.1	5
7/2/2004	2:30	29.67	6.92	0.209	0.854	21.9	1.67	0.1	5
7/2/2004	2:45	29.65	6.93	0.209	0.846	20.9	1.59	0.1	5
7/2/2004	3:00	29.64	6.89	0.21	0.839	20.2	1.54	0.1	5
7/2/2004	3:15	29.61	6.9	0.21	0.854	18.9	1.44	0.1	5
7/2/2004	3:30	29.59	6.91	0.21	0.847	18.1	1.38	0.1	5
7/2/2004	3:45	29.58	6.87	0.211	0.843	17.2	1.31	0.1	5
7/2/2004	4:00	29.56	6.89	0.211	0.844	15.5	1.18	0.1	5
7/2/2004	4:15	29.52	6.89	0.212	0.842	14	1.06	0.1	5
7/2/2004	4:30	29.51	6.82	0.212	0.84	12.7	0.96	0.1	5
7/2/2004	4:45	29.46	6.87	0.213	0.836	11.3	0.84	0.1	5
7/2/2004	5:00	29.43	6.84	0.214	0.835	9.5	0.72	0.1	5
7/2/2004	5:15	29.4	6.85	0.214	0.833	9.3	0.71	0.1	5
7/2/2004	5:30	29.36	6.85	0.215	0.834	9	0.69	0.1	5
7/2/2004	5:45	29.33	6.85	0.214	0.832	8.9	0.68	0.1	5
7/2/2004	6:00	29.29	6.84	0.213	0.831	9.4	0.72	0.1	5
7/2/2004	6:15	29.26	6.78	0.213	0.826	8.6	0.66	0.1	5

7/2/2004	6:30	29.22	6.8	0.212	0.828	8.5	0.65	0.1	5
7/2/2004	6:45	29.18	6.81	0.21	0.828	8.3	0.64	0.1	5
7/2/2004	7:00	29.16	6.84	0.21	0.83	7.5	0.58	0.1	5
7/2/2004	7:15	29.11	6.82	0.208	0.829	7.7	0.59	0.1	5
7/2/2004	7:30	29.08	6.83	0.208	0.827	6.8	0.52	0.1	5
7/2/2004	7:45	29.05	6.84	0.207	0.827	6.8	0.53	0.1	5
7/2/2004	8:00	29.02	6.83	0.206	0.827	6.8	0.52	0.09	5
7/2/2004	8:15	29	6.84	0.205	0.816	7.1	0.55	0.09	5
7/2/2004	8:30	28.99	6.83	0.205	0.826	7.3	0.56	0.09	5
7/2/2004	8:45	29	6.84	0.204	0.829	8.5	0.66	0.09	5
7/2/2004	9:00	29	6.84	0.204	0.821	8.9	0.68	0.09	5
7/2/2004	9:15	28.98	6.84	0.204	0.822	8.9	0.69	0.09	5
7/2/2004	9:30	29.01	6.84	0.204	0.82	9.8	0.75	0.09	5
7/2/2004	9:45	29.05	6.84	0.204	0.827	11.1	0.85	0.09	5
7/2/2004	10:00	29.08	6.84	0.204	0.829	11.5	0.89	0.09	5
7/2/2004	10:15	29.11	6.85	0.204	0.827	12.4	0.95	0.09	5
7/2/2004	10:30	29.18	6.85	0.203	0.826	14.2	1.09	0.09	5
7/2/2004	10:45	29.23	6.85	0.204	0.828	16.5	1.26	0.09	5
7/2/2004	11:00	29.26	6.88	0.203	0.823	16.4	1.26	0.09	5
7/2/2004	11:15	29.35	6.88	0.204	0.831	19.3	1.48	0.09	5
7/2/2004	11:30	29.39	6.87	0.203	0.831	18.5	1.41	0.09	5
7/2/2004	11:45	29.46	6.83	0.204	0.83	20.7	1.56	0.09	5
7/2/2004	12:00	29.46	6.9	0.204	0.833	20	1.52	0.09	5
7/2/2004	12:15	29.5	6.9	0.204	0.836	19.8	1.51	0.09	5
7/2/2004	12:30	29.49	6.86	0.204	0.862	19.8	1.51	0.09	5
7/2/2004	12:45	29.46	6.85	0.204	0.881	22	1.68	0.09	5
7/2/2004	13:00	29.43	6.91	0.204	0.894	20	1.52	0.09	5
7/2/2004	13:15	29.4	6.84	0.204	0.88	20.4	1.56	0.09	5
7/2/2004	13:30	29.39	6.9	0.203	0.868	21	1.6	0.09	5
7/2/2004	13:45	29.38	6.91	0.204	0.85	20.7	1.58	0.09	5
7/2/2004	14:00	29.37	6.92	0.204	0.844	20	1.52	0.09	5
7/2/2004	14:15	29.37	6.85	0.204	0.854	18.2	1.39	0.09	5
7/2/2004	14:30	29.36	6.84	0.204	0.855	18.2	1.39	0.09	5
7/2/2004	14:45	29.36	6.86	0.203	0.855	20.2	1.54	0.09	5
7/2/2004	15:00	29.37	6.9	0.204	0.856	21	1.6	0.09	5
7/2/2004	15:15	29.38	6.92	0.204	0.858	21.4	1.63	0.09	5
7/2/2004	15:30	29.4	6.88	0.204	0.859	21.8	1.66	0.09	5
7/2/2004	15:45	29.42	6.87	0.204	0.86	22	1.68	0.09	5
7/2/2004	16:00	29.45	6.87	0.203	0.86	22.4	1.71	0.09	5
7/2/2004	16:15	29.48	6.91	0.204	0.86	22.3	1.7	0.09	5
7/2/2004	16:30	29.51	6.86	0.204	0.862	22.8	1.74	0.09	5
7/2/2004	16:45	29.57	6.93	0.204	0.862	24.2	1.84	0.09	5
7/2/2004	17:00	29.62	6.94	0.204	0.864	24.9	1.9	0.09	5
7/2/2004	17:15	29.69	6.88	0.204	0.865	26.2	1.99	0.09	5
7/2/2004	17:30	29.74	6.94	0.203	0.865	27.3	2.07	0.09	5

7/2/2004	17:45	29.78	6.94	0.203	0.869	28.3	2.15	0.09	5
7/2/2004	18:00	29.81	6.94	0.203	0.869	29.8	2.26	0.09	5
7/2/2004	18:15	29.84	6.93	0.203	0.867	30.6	2.32	0.09	5
7/2/2004	18:30	29.86	6.95	0.204	0.87	32.3	2.45	0.09	5
7/2/2004	18:45	29.86	6.92	0.204	0.872	32	2.42	0.09	5
7/2/2004	19:00	29.85	6.91	0.204	0.874	31.8	2.41	0.09	5
7/2/2004	19:15	29.84	6.93	0.206	0.873	31.2	2.36	0.09	5
7/2/2004	19:30	29.83	6.92	0.206	0.869	29.9	2.26	0.1	5
7/2/2004	19:45	29.82	6.91	0.207	0.874	28.2	2.14	0.1	5
7/2/2004	20:00	29.81	6.9	0.208	0.869	27.1	2.05	0.1	5
7/2/2004	20:15	29.8	6.9	0.208	0.867	26	1.97	0.1	5
7/2/2004	20:30	29.75	6.89	0.21	0.873	25.4	1.93	0.1	5
7/2/2004	20:45	29.75	6.87	0.211	0.857	24.2	1.83	0.1	5
7/2/2004	21:00	29.73	6.86	0.211	0.867	23	1.74	0.1	5
7/2/2004	21:15	29.71	6.89	0.211	0.866	22	1.67	0.1	5
7/2/2004	21:30	29.68	6.86	0.21	0.865	20.3	1.54	0.1	5
7/2/2004	21:45	29.69	6.87	0.211	0.866	20.7	1.57	0.1	5
7/2/2004	22:00	29.65	6.86	0.211	0.864	19.7	1.5	0.1	5
7/2/2004	22:15	29.64	6.89	0.211	0.861	19.9	1.51	0.1	5
7/2/2004	22:30	29.6	6.83	0.21	0.858	18.8	1.43	0.1	5
7/2/2004	22:45	29.58	6.83	0.209	0.856	19.2	1.46	0.1	5
7/2/2004	23:00	29.55	6.82	0.21	0.861	17.5	1.33	0.1	5
7/2/2004	23:15	29.54	6.87	0.209	0.856	17.9	1.36	0.1	5
7/2/2004	23:30	29.52	6.88	0.209	0.851	17	1.29	0.1	5
7/2/2004	23:45	29.49	6.88	0.208	0.861	17.2	1.31	0.1	5
7/3/2004	0:00	29.48	6.86	0.208	0.861	16.6	1.26	0.1	5
7/3/2004	0:15	29.45	6.88	0.207	0.863	15.7	1.19	0.1	5
7/3/2004	0:30	29.43	6.81	0.207	0.869	14.8	1.13	0.1	5
7/3/2004	0:45	29.41	6.87	0.207	0.863	14.4	1.1	0.1	5
7/3/2004	1:00	29.37	6.81	0.207	0.858	13.5	1.03	0.1	5
7/3/2004	1:15	29.35	6.87	0.207	0.857	13	1	0.1	5
7/3/2004	1:30	29.34	6.8	0.206	0.85	12.8	0.98	0.1	5
7/3/2004	1:45	29.31	6.86	0.206	0.855	12	0.92	0.09	5
7/3/2004	2:00	29.28	6.86	0.206	0.85	11.2	0.85	0.1	5
7/3/2004	2:15	29.27	6.82	0.206	0.853	11.2	0.85	0.09	5
7/3/2004	2:30	29.22	6.85	0.206	0.858	10.3	0.79	0.1	5
7/3/2004	2:45	29.21	6.8	0.206	0.841	10.5	0.8	0.09	5
7/3/2004	3:00	29.17	6.83	0.206	0.849	9.6	0.73	0.09	5
7/3/2004	3:15	29.18	6.8	0.206	0.844	9.2	0.7	0.09	5
7/3/2004	3:30	29.16	6.85	0.206	0.844	8.8	0.68	0.1	5
7/3/2004	3:45	29.12	6.82	0.206	0.842	8.2	0.63	0.1	5
7/3/2004	4:00	29.11	6.83	0.207	0.843	7.8	0.6	0.1	5
7/3/2004	4:15	29.09	6.82	0.207	0.84	7.6	0.58	0.1	5
7/3/2004	4:30	29.07	6.84	0.207	0.836	7.6	0.58	0.1	5
7/3/2004	4:45	29.04	6.84	0.207	0.84	7.6	0.58	0.1	5

7/3/2004	5:00	29	6.83	0.207	0.834	7.2	0.56	0.1	5
7/3/2004	5:15	29	6.82	0.207	0.834	7.1	0.55	0.1	5
7/3/2004	5:30	28.96	6.82	0.208	0.83	6.8	0.53	0.1	5
7/3/2004	5:45	28.94	6.83	0.208	0.834	6.6	0.51	0.1	5
7/3/2004	6:00	28.91	6.83	0.209	0.827	6.5	0.5	0.1	5
7/3/2004	6:15	28.88	6.83	0.209	0.827	6.3	0.48	0.1	5
7/3/2004	6:30	28.85	6.83	0.209	0.831	5.9	0.46	0.1	5
7/3/2004	6:45	28.82	6.83	0.21	0.824	5.7	0.44	0.1	5
7/3/2004	7:00	28.81	6.83	0.21	0.825	5.7	0.44	0.1	5
7/3/2004	7:15	28.8	6.83	0.21	0.824	5.6	0.43	0.1	5
7/3/2004	7:30	28.78	6.83	0.211	0.823	5.4	0.42	0.1	5
7/3/2004	7:45	28.77	6.83	0.211	0.821	5.8	0.45	0.1	5
7/3/2004	8:00	28.77	6.84	0.212	0.817	6.5	0.5	0.1	5
7/3/2004	8:15	28.79	6.84	0.212	0.817	7	0.54	0.1	5
7/3/2004	8:30	28.82	6.85	0.213	0.814	8	0.61	0.1	5
7/3/2004	8:45	28.85	6.85	0.213	0.818	9	0.69	0.1	5
7/3/2004	9:00	28.88	6.85	0.214	0.819	9.9	0.77	0.1	5
7/3/2004	9:15	28.93	6.86	0.214	0.821	11.3	0.87	0.1	5
7/3/2004	9:30	28.99	6.86	0.215	0.82	12.3	0.94	0.1	5
7/3/2004	9:45	29.05	6.88	0.215	0.821	13.7	1.05	0.1	5
7/3/2004	10:00	29.09	6.88	0.217	0.822	14	1.07	0.1	5
7/3/2004	10:15	29.17	6.9	0.216	0.819	16.2	1.24	0.1	5
7/3/2004	10:30	29.24	6.89	0.217	0.817	17.1	1.31	0.1	5
7/3/2004	10:45	29.34	6.92	0.221	0.82	19.6	1.5	0.1	5
7/3/2004	11:00	29.41	6.87	0.259	0.819	24.4	1.86	0.12	5
7/3/2004	11:15	29.43	6.78	0.281	0.822	28.8	2.17	0.14	5
7/3/2004	11:30	29.45	6.83	0.291	0.816	31	2.37	0.14	5
7/3/2004	11:45	29.54	6.84	0.297	0.812	33.8	2.58	0.14	5
7/3/2004	12:00	29.57	6.77	0.3	0.816	35.4	2.7	0.15	5
7/3/2004	12:15	29.64	6.78	0.301	0.807	37.1	2.82	0.15	5
7/3/2004	12:30	29.72	6.79	0.299	0.82	38.8	2.94	0.15	5
7/3/2004	12:45	29.77	6.84	0.3	0.822	40.3	3.05	0.15	5
7/3/2004	13:00	29.82	6.81	0.301	0.821	40.5	3.07	0.15	5
7/3/2004	13:15	29.87	6.84	0.3	0.816	41.2	3.12	0.15	5
7/3/2004	13:30	29.93	6.82	0.302	0.814	42.5	3.21	0.15	5
7/3/2004	13:45	30	6.82	0.302	0.812	42.9	3.24	0.15	5
7/3/2004	14:00	30.06	6.83	0.3	0.818	44.3	3.33	0.15	5
7/3/2004	14:15	30.13	6.83	0.299	0.818	43.7	3.29	0.14	5
7/3/2004	14:30	30.2	6.82	0.299	0.824	42.5	3.23	0.14	5
7/3/2004	14:45	30.27	6.82	0.301	0.836	45.7	3.44	0.15	5
7/3/2004	15:00	30.24	6.82	0.301	0.845	45.9	3.45	0.15	5
7/3/2004	15:15	30.28	6.81	0.303	0.875	43.8	3.29	0.15	5
7/3/2004	15:30	30.25	6.81	0.308	0.857	45.3	3.41	0.15	5
7/3/2004	15:45	30.16	6.83	0.296	0.836	48.6	3.66	0.14	5
7/3/2004	16:00	30.16	6.82	0.295	0.831	45.1	3.39	0.14	5

7/3/2004	16:15	30.16	6.82	0.293	0.838	45.2	3.4	0.14	5
7/3/2004	16:30	30.11	6.82	0.289	0.84	37.8	2.85	0.14	5
7/3/2004	16:45	30.15	6.84	0.277	0.841	38.8	2.92	0.13	5
7/3/2004	17:00	30.16	6.85	0.268	0.854	38.8	2.92	0.13	5
7/3/2004	17:15	30.13	6.84	0.27	0.857	35.5	2.68	0.13	5
7/3/2004	17:30	30.15	6.85	0.263	0.848	34.9	2.63	0.13	5
7/3/2004	17:45	30.19	6.87	0.252	0.845	35.7	2.69	0.12	5
7/3/2004	18:00	30.22	6.88	0.248	0.848	36.4	2.73	0.12	5
7/3/2004	18:15	30.28	6.9	0.241	0.841	36.1	2.68	0.11	5
7/3/2004	18:30	30.35	6.91	0.233	0.859	37.8	2.84	0.11	5
7/3/2004	18:45	30.39	6.93	0.23	0.86	40.8	3.06	0.11	5
7/3/2004	19:00	30.39	6.93	0.229	0.862	40	3	0.11	5
7/3/2004	19:15	30.38	6.93	0.228	0.862	40.7	3.06	0.11	5
7/3/2004	19:30	30.39	6.95	0.224	0.857	42.4	3.18	0.1	5
7/3/2004	19:45	30.35	6.96	0.22	0.857	42.8	3.23	0.1	5
7/3/2004	20:00	30.29	6.96	0.219	0.855	41.4	3.11	0.1	5
7/3/2004	20:15	30.22	6.96	0.218	0.856	40.1	2.99	0.1	5
7/3/2004	20:30	30.14	6.95	0.218	0.855	36.8	2.77	0.1	5
7/3/2004	20:45	30.07	6.95	0.217	0.855	35.3	2.66	0.1	5
7/3/2004	21:00	30.02	6.95	0.217	0.856	33.8	2.55	0.1	5
7/3/2004	21:15	29.97	6.94	0.216	0.855	32.5	2.45	0.1	5
7/3/2004	21:30	29.91	6.94	0.216	0.855	31	2.35	0.1	5
7/3/2004	21:45	29.84	6.92	0.216	0.856	29.8	2.26	0.1	5
7/3/2004	22:00	29.79	6.93	0.215	0.856	29	2.2	0.1	5
7/3/2004	22:15	29.74	6.93	0.215	0.86	27.3	2.07	0.1	5
7/3/2004	22:30	29.68	6.91	0.215	0.855	26.1	1.98	0.1	5
7/3/2004	22:45	29.64	6.91	0.214	0.855	25.1	1.91	0.1	5
7/3/2004	23:00	29.59	6.93	0.213	0.848	24.7	1.89	0.1	5
7/3/2004	23:15	29.57	6.92	0.213	0.855	24.7	1.88	0.1	5
7/3/2004	23:30	29.53	6.91	0.213	0.853	23.8	1.81	0.1	5
7/3/2004	23:45	29.51	6.86	0.213	0.851	22.9	1.74	0.1	5
7/4/2004	0:00	29.49	6.92	0.213	0.853	22.8	1.74	0.1	5
7/4/2004	0:15	29.47	6.92	0.213	0.851	21.2	1.61	0.1	5
7/4/2004	0:30	29.44	6.92	0.212	0.85	21.5	1.64	0.1	5
7/4/2004	0:45	29.41	6.84	0.212	0.847	20.3	1.55	0.1	5
7/4/2004	1:00	29.39	6.87	0.212	0.848	19.8	1.51	0.1	5
7/4/2004	1:15	29.35	6.83	0.212	0.841	18.5	1.43	0.1	5
7/4/2004	1:30	29.32	6.89	0.212	0.839	17	1.3	0.1	5
7/4/2004	1:45	29.29	6.89	0.212	0.846	16.7	1.28	0.1	5
7/4/2004	2:00	29.28	6.89	0.212	0.841	15.6	1.19	0.1	5
7/4/2004	2:15	29.25	6.88	0.212	0.845	14.9	1.14	0.1	5
7/4/2004	2:30	29.21	6.84	0.213	0.845	14	1.07	0.1	5
7/4/2004	2:45	29.18	6.88	0.212	0.844	13.2	1.01	0.1	5
7/4/2004	3:00	29.16	6.87	0.212	0.842	12.7	0.97	0.1	5
7/4/2004	3:15	29.13	6.83	0.212	0.839	11.1	0.85	0.1	5

7/4/2004	3:30	29.11	6.85	0.212	0.837	10.4	0.8	0.1	5
7/4/2004	3:45	29.1	6.86	0.212	0.839	10.7	0.81	0.1	5
7/4/2004	4:00	29.07	6.84	0.212	0.837	10.2	0.78	0.1	5
7/4/2004	4:15	29.05	6.86	0.211	0.837	9.8	0.76	0.1	5
7/4/2004	4:30	29.03	6.84	0.211	0.834	9	0.69	0.1	5
7/4/2004	4:45	29	6.86	0.212	0.835	8.6	0.66	0.1	5
7/4/2004	5:00	28.97	6.83	0.212	0.825	8.2	0.63	0.1	5
7/4/2004	5:15	28.96	6.84	0.211	0.816	8.2	0.63	0.1	5
7/4/2004	5:30	28.95	6.84	0.211	0.826	7.9	0.61	0.1	5
7/4/2004	5:45	28.92	6.83	0.212	0.82	7.3	0.56	0.1	5
7/4/2004	6:00	28.87	6.84	0.211	0.818	6.8	0.52	0.1	5
7/4/2004	6:15	28.86	6.83	0.211	0.819	6.4	0.49	0.1	5
7/4/2004	6:30	28.84	6.83	0.212	0.815	6.3	0.48	0.1	5
7/4/2004	6:45	28.82	6.83	0.212	0.822	6	0.46	0.1	5
7/4/2004	7:00	28.8	6.83	0.212	0.824	5.5	0.43	0.1	5
7/4/2004	7:15	28.8	6.83	0.212	0.822	6.1	0.47	0.1	5
7/4/2004	7:30	28.78	6.83	0.212	0.82	6.2	0.48	0.1	5
7/4/2004	7:45	28.78	6.83	0.212	0.815	6.6	0.51	0.1	5
7/4/2004	8:00	28.81	6.83	0.212	0.815	7.1	0.55	0.1	5
7/4/2004	8:15	28.82	6.83	0.212	0.82	7.7	0.59	0.1	5
7/4/2004	8:30	28.84	6.83	0.213	0.819	8.3	0.64	0.1	5
7/4/2004	8:45	28.88	6.83	0.212	0.814	9.6	0.74	0.1	5
7/4/2004	9:00	28.91	6.83	0.213	0.815	9.8	0.77	0.1	5
7/4/2004	9:15	28.97	6.84	0.213	0.813	10.8	0.83	0.1	5
7/4/2004	9:30	29.02	6.84	0.214	0.811	11.4	0.87	0.1	5
7/4/2004	9:45	29.06	6.84	0.218	0.81	12.2	0.94	0.1	5
7/4/2004	10:00	29.16	6.78	0.284	0.806	20.8	1.6	0.14	5
7/4/2004	10:15	29.2	6.72	0.333	0.784	28.5	2.18	0.16	5
7/4/2004	10:30	29.21	6.73	0.36	0.808	30.3	2.33	0.18	5
7/4/2004	10:45	29.25	6.76	0.375	0.801	33.4	2.55	0.19	5
7/4/2004	11:00	29.26	6.76	0.384	0.803	34.2	2.62	0.19	5
7/4/2004	11:15	29.29	6.76	0.388	0.806	35.6	2.72	0.19	5
7/4/2004	11:30	29.34	6.75	0.387	0.807	35.9	2.74	0.19	5
7/4/2004	11:45	29.31	6.75	0.387	0.803	35.4	2.71	0.19	5
7/4/2004	12:00	29.37	6.75	0.39	0.808	34.7	2.65	0.19	5
7/4/2004	12:15	29.45	6.69	0.395	0.809	34.3	2.61	0.2	5
7/4/2004	12:30	29.53	6.73	0.396	0.813	33.8	2.58	0.2	5
7/4/2004	12:45	29.54	6.71	0.405	0.812	34.2	2.6	0.2	5
7/4/2004	13:00	29.61	6.71	0.412	0.823	34.6	2.63	0.21	5
7/4/2004	13:15	29.65	6.68	0.413	0.808	35.6	2.7	0.21	5
7/4/2004	13:30	29.69	6.69	0.409	0.81	35.5	2.7	0.2	5
7/4/2004	13:45	29.74	6.7	0.405	0.801	35.6	2.7	0.2	5
7/4/2004	14:00	29.82	6.71	0.402	0.795	36.3	2.75	0.2	5
7/4/2004	14:15	29.88	6.72	0.397	0.809	35.7	2.7	0.2	5
7/4/2004	14:30	29.95	6.72	0.395	0.811	35.9	2.71	0.2	5
7/4/2004	14:45	30	6.72	0.39	0.805	37.9	2.86	0.19	5

7/4/2004	15:00	30.05	6.73	0.383	0.814	38.2	2.88	0.19	5
7/4/2004	15:15	30.09	6.73	0.381	0.816	38.4	2.88	0.19	5
7/4/2004	15:30	30.16	6.74	0.376	0.821	39.4	2.97	0.19	5
7/4/2004	15:45	30.21	6.75	0.363	0.819	40	3.01	0.18	5
7/4/2004	16:00	30.26	6.76	0.351	0.822	40.1	3.01	0.17	5
7/4/2004	16:15	30.34	6.77	0.335	0.826	40.5	3.04	0.16	5
7/4/2004	16:30	30.43	6.79	0.321	0.825	39.8	3	0.16	5
7/4/2004	16:45	30.51	6.8	0.307	0.824	40.4	3.01	0.15	5
7/4/2004	17:00	30.66	6.81	0.297	0.821	40.6	3.03	0.14	5
7/4/2004	17:15	30.64	6.83	0.282	0.828	40.2	3	0.14	5
7/4/2004	17:30	30.71	6.85	0.27	0.824	42	3.13	0.13	5
7/4/2004	17:45	30.68	6.87	0.256	0.83	42.3	3.16	0.12	5
7/4/2004	18:00	30.72	6.87	0.251	0.828	43	3.21	0.12	5
7/4/2004	18:15	30.78	6.88	0.248	0.832	43.5	3.24	0.12	5
7/4/2004	18:30	30.78	6.9	0.237	0.832	44.8	3.34	0.11	5
7/4/2004	18:45	30.76	6.9	0.233	0.839	44.3	3.3	0.11	5
7/4/2004	19:00	30.79	6.9	0.233	0.845	43.5	3.24	0.11	5
7/4/2004	19:15	30.78	6.9	0.232	0.837	43.5	3.24	0.11	5
7/4/2004	19:30	30.76	6.91	0.228	0.837	43.3	3.23	0.11	5
7/4/2004	19:45	30.74	6.91	0.226	0.832	42.6	3.18	0.11	5
7/4/2004	20:00	30.83	6.91	0.226	0.836	45.2	3.37	0.11	5
7/4/2004	20:15	30.81	6.92	0.224	0.84	46.6	3.47	0.1	5
7/4/2004	20:30	30.81	6.92	0.225	0.842	47.8	3.56	0.11	5
7/4/2004	20:45	30.83	6.93	0.225	0.84	48.4	3.6	0.11	5
7/4/2004	21:00	30.75	6.92	0.227	0.84	43.3	3.23	0.11	5
7/4/2004	21:15	30.72	6.92	0.226	0.838	43.7	3.26	0.11	5
7/4/2004	21:30	30.67	6.91	0.225	0.838	42.2	3.15	0.11	5
7/4/2004	21:45	30.61	6.91	0.225	0.843	39.9	2.98	0.11	5
7/4/2004	22:00	30.55	6.91	0.222	0.842	39.8	2.98	0.1	5
7/4/2004	22:15	30.51	6.9	0.222	0.841	36.7	2.75	0.1	5
7/4/2004	22:30	30.46	6.9	0.222	0.84	34.9	2.62	0.1	5
7/4/2004	22:45	30.39	6.89	0.221	0.837	33.4	2.51	0.1	5
7/4/2004	23:00	30.33	6.89	0.221	0.831	32.5	2.44	0.1	5
7/4/2004	23:15	30.27	6.89	0.221	0.832	30.4	2.29	0.1	5
7/4/2004	23:30	30.23	6.89	0.219	0.836	28.8	2.16	0.1	5
7/4/2004	23:45	30.2	6.88	0.219	0.834	28.1	2.12	0.1	5
7/5/2004	0:00	30.16	6.88	0.218	0.839	27.3	2.05	0.1	5
7/5/2004	0:15	30.13	6.87	0.218	0.839	25.9	1.95	0.1	5
7/5/2004	0:30	30.11	6.87	0.218	0.835	24	1.81	0.1	5
7/5/2004	0:45	30.09	6.87	0.218	0.831	23.1	1.74	0.1	5
7/5/2004	1:00	30.09	6.87	0.217	0.83	22.2	1.67	0.1	5
7/5/2004	1:15	30.07	6.86	0.217	0.833	21	1.58	0.1	5
7/5/2004	1:30	30.05	6.86	0.217	0.832	21	1.58	0.1	5
7/5/2004	1:45	30.03	6.86	0.217	0.828	20.5	1.57	0.1	5
7/5/2004	2:00	30.01	6.86	0.216	0.83	20.1	1.52	0.1	5

7/5/2004	2:15	29.98	6.86	0.217	0.827	18.6	1.4	0.1	5
7/5/2004	2:30	29.97	6.86	0.216	0.826	18.6	1.4	0.1	5
7/5/2004	2:45	29.95	6.84	0.216	0.824	17.5	1.32	0.1	5
7/5/2004	3:00	29.94	6.85	0.215	0.821	17.4	1.32	0.1	5
7/5/2004	3:15	29.92	6.84	0.216	0.825	16.4	1.24	0.1	5
7/5/2004	3:30	29.91	6.84	0.215	0.824	15.7	1.18	0.1	5
7/5/2004	3:45	29.89	6.84	0.215	0.822	15.4	1.16	0.1	5
7/5/2004	4:00	29.88	6.83	0.215	0.822	15.1	1.14	0.1	5
7/5/2004	4:15	29.84	6.83	0.214	0.823	14.9	1.13	0.1	5
7/5/2004	4:30	29.81	6.83	0.214	0.822	14	1.06	0.1	5
7/5/2004	4:45	29.79	6.83	0.214	0.82	13.8	1.04	0.1	5
7/5/2004	5:00	29.74	6.83	0.214	0.832	13.8	1.05	0.1	5
7/5/2004	5:15	29.7	6.83	0.214	0.823	13.6	1.03	0.1	5
7/5/2004	5:30	29.69	6.82	0.213	0.819	13.5	1.02	0.1	5
7/5/2004	5:45	29.66	6.83	0.213	0.819	12	0.91	0.1	5
7/5/2004	6:00	29.62	6.82	0.213	0.819	11.7	0.89	0.1	5
7/5/2004	6:15	29.59	6.82	0.211	0.809	11.2	0.86	0.1	5
7/5/2004	6:30	29.58	6.82	0.212	0.809	11.5	0.88	0.1	5
7/5/2004	6:45	29.54	6.8	0.212	0.811	10.4	0.79	0.1	5
7/5/2004	7:00	29.5	6.81	0.212	0.817	10	0.76	0.1	5
7/5/2004	7:15	29.48	6.82	0.211	0.811	9.8	0.75	0.1	5
7/5/2004	7:30	29.46	6.82	0.211	0.809	9.2	0.7	0.1	5
7/5/2004	7:45	29.43	6.8	0.211	0.812	8	0.61	0.1	5
7/5/2004	8:00	29.4	6.76	0.21	0.8	7.4	0.57	0.1	5
7/5/2004	8:15	29.39	6.79	0.21	0.804	7.8	0.59	0.1	5
7/5/2004	8:30	29.39	6.76	0.21	0.804	8.1	0.62	0.1	5
7/5/2004	8:45	29.4	6.77	0.21	0.807	8.8	0.67	0.1	5
7/5/2004	9:00	29.39	6.75	0.21	0.801	8.9	0.68	0.1	5
7/5/2004	9:15	29.4	6.77	0.21	0.797	9.6	0.73	0.1	5
7/5/2004	9:30	29.4	6.76	0.209	0.802	9.8	0.72	0.1	5
7/5/2004	9:45	29.42	6.78	0.208	0.807	10	0.77	0.1	5
7/5/2004	10:00	29.43	6.73	0.21	0.802	9.8	0.74	0.1	5
7/5/2004	10:15	29.45	6.77	0.204	0.808	9.8	0.75	0.09	5
7/5/2004	10:30	29.47	6.74	0.21	0.792	10.2	0.78	0.1	5
7/5/2004	10:45	29.53	6.74	0.209	0.796	12.5	0.95	0.1	5
7/5/2004	11:00	29.53	6.76	0.207	0.794	12.6	0.96	0.1	5
7/5/2004	11:15	29.58	6.73	0.209	0.797	13.8	1.05	0.1	5
7/5/2004	11:30	29.61	6.73	0.209	0.8	14.2	1.08	0.1	5
7/5/2004	11:45	29.7	6.74	0.21	0.801	16.8	1.27	0.1	5
7/5/2004	12:00	29.7	6.74	0.21	0.792	16.6	1.26	0.1	5
7/5/2004	12:15	29.76	6.74	0.208	0.794	16.3	1.24	0.1	5
7/5/2004	12:30	29.8	6.74	0.213	0.793	16.6	1.26	0.1	5
7/5/2004	12:45	29.87	6.75	0.212	0.803	18.5	1.39	0.1	5
7/5/2004	13:00	29.93	6.75	0.212	0.794	19.5	1.47	0.1	5
7/5/2004	13:15	30.04	6.76	0.213	0.797	22	1.66	0.1	5

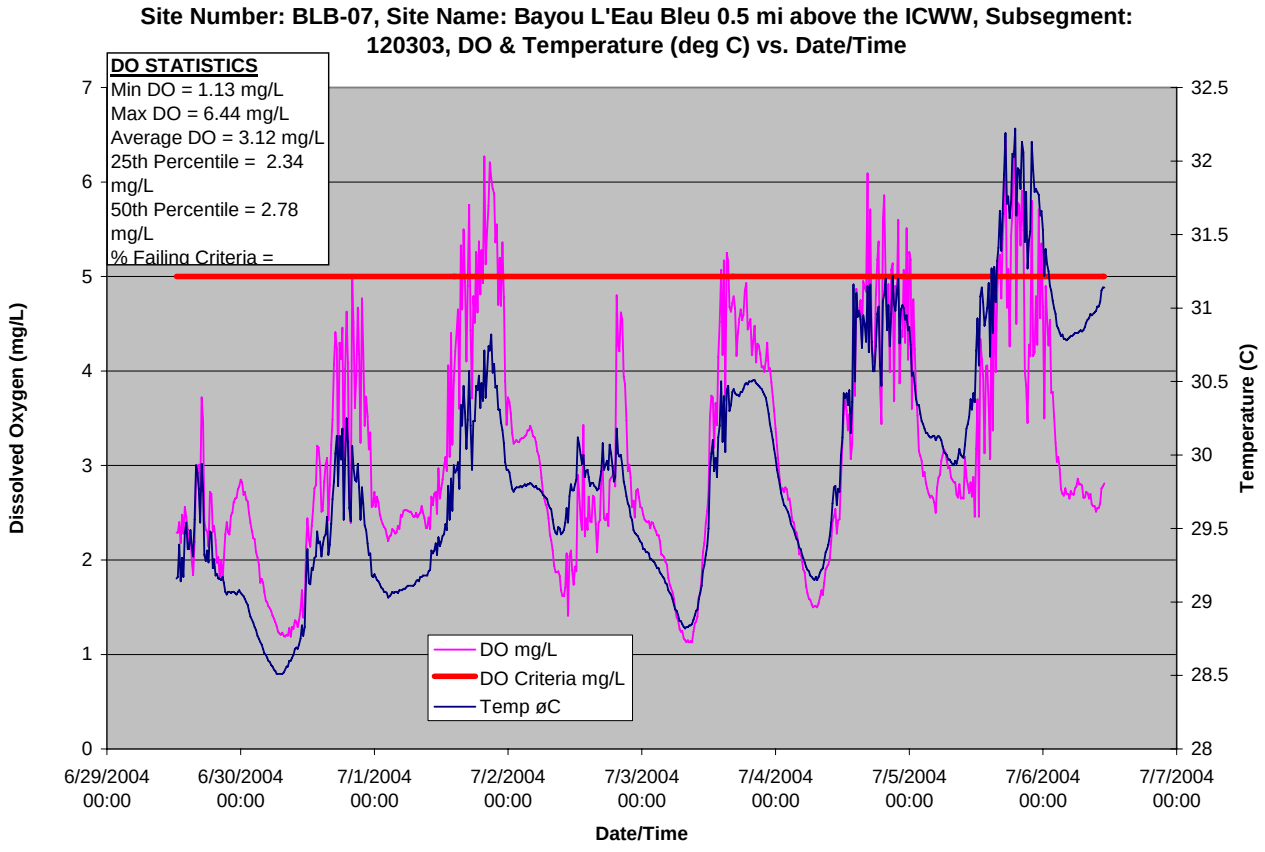
7/5/2004	13:30	30.08	6.76	0.213	0.796	21.9	1.65	0.1	5
7/5/2004	13:45	30.14	6.76	0.216	0.795	23.4	1.76	0.1	5
7/5/2004	14:00	30.2	6.76	0.212	0.804	24.4	1.83	0.1	5
7/5/2004	14:15	30.27	6.76	0.217	0.802	26.1	1.96	0.1	5
7/5/2004	14:30	30.3	6.77	0.216	0.814	26.8	2.01	0.1	5
7/5/2004	14:45	30.36	6.77	0.216	0.807	27.2	2.04	0.1	5
7/5/2004	15:00	30.35	6.77	0.217	0.799	27	2.03	0.1	5
7/5/2004	15:15	30.42	6.78	0.218	0.801	27.9	2.11	0.1	5
7/5/2004	15:30	30.48	6.79	0.218	0.803	30.5	2.29	0.1	5
7/5/2004	15:45	30.53	6.79	0.219	0.799	30.8	2.31	0.1	5
7/5/2004	16:00	30.66	6.8	0.219	0.814	34.5	2.57	0.1	5
7/5/2004	16:15	30.67	6.8	0.219	0.804	33.7	2.52	0.1	5
7/5/2004	16:30	30.65	6.8	0.22	0.813	33.6	2.51	0.1	5
7/5/2004	16:45	30.68	6.81	0.22	0.809	32.4	2.42	0.1	5
7/5/2004	17:00	30.79	6.81	0.22	0.817	35.5	2.64	0.1	5
7/5/2004	17:15	30.77	6.81	0.221	0.817	32.8	2.44	0.1	5
7/5/2004	17:30	30.8	6.81	0.221	0.821	33.7	2.51	0.1	5
7/5/2004	17:45	30.82	6.81	0.221	0.823	33.2	2.48	0.1	5
7/5/2004	18:00	30.83	6.82	0.222	0.817	33.3	2.48	0.1	5
7/5/2004	18:15	30.81	6.83	0.222	0.815	34.3	2.55	0.1	5
7/5/2004	18:30	30.9	6.83	0.222	0.827	35.3	2.63	0.1	5
7/5/2004	18:45	30.98	6.83	0.222	0.825	36.5	2.71	0.1	5
7/5/2004	19:00	30.98	6.84	0.222	0.827	37	2.75	0.1	5
7/5/2004	19:15	30.97	6.85	0.222	0.83	37.5	2.78	0.1	5
7/5/2004	19:30	30.99	6.85	0.223	0.831	37	2.75	0.1	5
7/5/2004	19:45	31.01	6.85	0.223	0.837	40.1	2.97	0.1	5
7/5/2004	20:00	31	6.85	0.223	0.837	39.4	2.93	0.1	5
7/5/2004	20:15	30.99	6.85	0.223	0.838	37.7	2.8	0.1	5
7/5/2004	20:30	30.95	6.85	0.223	0.834	36.1	2.68	0.1	5
7/5/2004	20:45	30.91	6.84	0.224	0.834	33.4	2.48	0.1	5
7/5/2004	21:00	30.89	6.84	0.224	0.836	32.2	2.4	0.1	5
7/5/2004	21:15	30.87	6.84	0.223	0.841	31.2	2.32	0.1	5
7/5/2004	21:30	30.83	6.84	0.224	0.836	30.3	2.26	0.1	5
7/5/2004	21:45	30.79	6.84	0.224	0.847	29.8	2.22	0.1	5
7/5/2004	22:00	30.77	6.84	0.224	0.846	28.9	2.16	0.1	5
7/5/2004	22:15	30.76	6.84	0.224	0.843	28	2.08	0.1	5
7/5/2004	22:30	30.74	6.83	0.224	0.83	25.8	1.93	0.1	5
7/5/2004	22:45	30.74	6.83	0.224	0.835	25.5	1.9	0.1	5
7/5/2004	23:00	30.73	6.83	0.224	0.832	24.5	1.83	0.1	5
7/5/2004	23:15	30.71	6.83	0.225	0.839	22.7	1.69	0.1	5
7/5/2004	23:30	30.7	6.83	0.225	0.835	21.4	1.59	0.11	5
7/5/2004	23:45	30.68	6.83	0.224	0.834	19.8	1.48	0.1	5
7/6/2004	0:00	30.68	6.83	0.225	0.831	20	1.5	0.1	5
7/6/2004	0:15	30.66	6.82	0.225	0.834	19.1	1.43	0.11	5
7/6/2004	0:30	30.66	6.83	0.225	0.831	18.2	1.36	0.11	5
7/6/2004	0:45	30.66	6.83	0.225	0.839	18.2	1.36	0.11	5

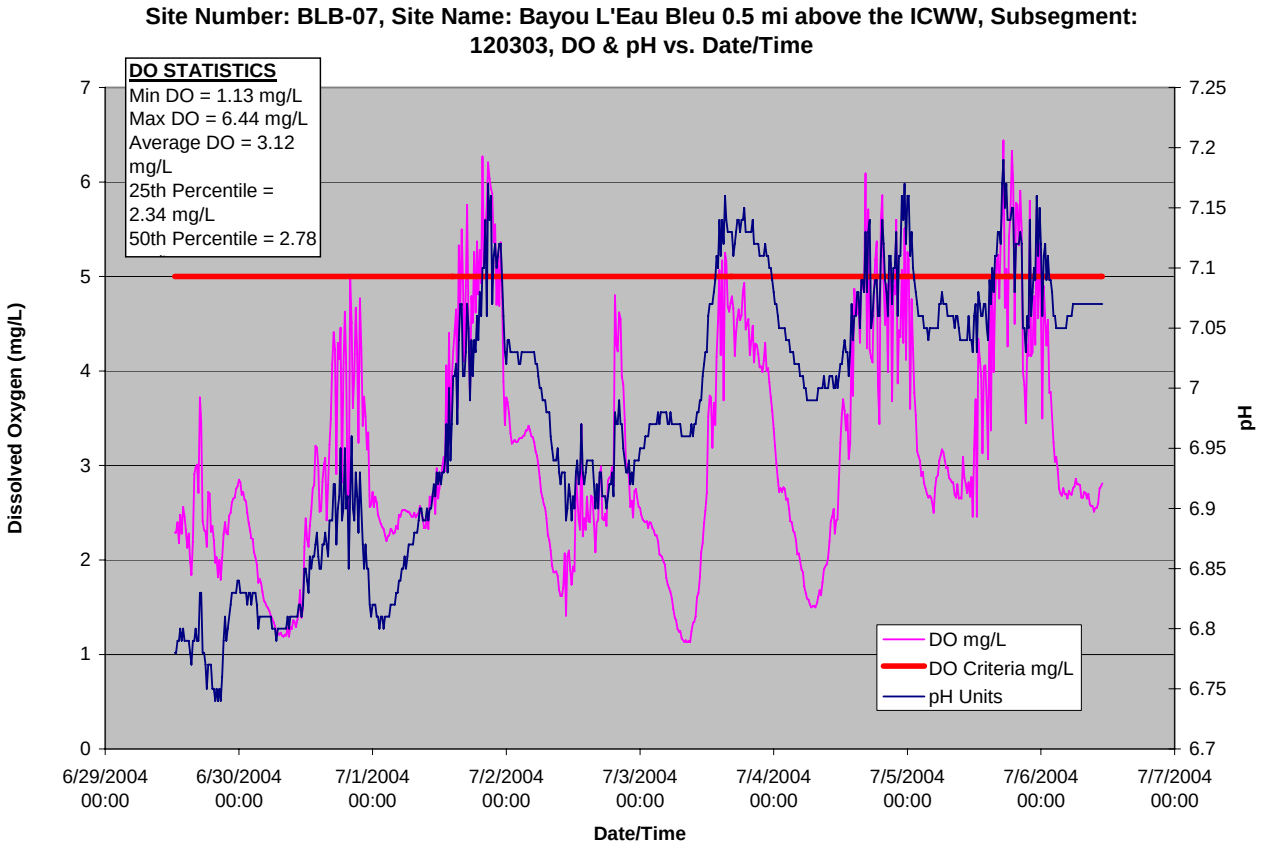
7/6/2004	1:00	30.65	6.83	0.225	0.833	18.2	1.36	0.11	5
7/6/2004	1:15	30.63	6.83	0.226	0.839	18	1.32	0.11	5
7/6/2004	1:30	30.62	6.83	0.225	0.83	17.4	1.3	0.11	5
7/6/2004	1:45	30.59	6.83	0.226	0.837	16.8	1.25	0.11	5
7/6/2004	2:00	30.59	6.83	0.226	0.84	16.1	1.2	0.11	5
7/6/2004	2:15	30.58	6.83	0.225	0.837	16.5	1.23	0.11	5
7/6/2004	2:30	30.57	6.83	0.23	0.83	16.5	1.23	0.11	5
7/6/2004	2:45	30.57	6.83	0.225	0.82	16.6	1.24	0.11	5
7/6/2004	3:00	30.58	6.83	0.224	0.829	16.2	1.2	0.1	5
7/6/2004	3:15	30.57	6.83	0.224	0.818	16.2	1.21	0.1	5
7/6/2004	3:30	30.53	6.83	0.224	0.83	16.2	1.21	0.1	5
7/6/2004	3:45	30.5	6.83	0.224	0.827	14.9	1.12	0.1	5
7/6/2004	4:00	30.5	6.83	0.224	0.833	14.2	1.07	0.1	5
7/6/2004	4:15	30.46	6.82	0.224	0.838	13.5	1.03	0.1	5
7/6/2004	4:30	30.42	6.82	0.224	0.821	12.6	0.95	0.1	5
7/6/2004	4:45	30.41	6.82	0.224	0.82	13.2	0.99	0.1	5
7/6/2004	5:00	30.37	6.82	0.224	0.816	11.8	0.89	0.1	5
7/6/2004	5:15	30.34	6.82	0.224	0.822	11.1	0.84	0.1	5
7/6/2004	5:30	30.31	6.82	0.224	0.822	11.1	0.84	0.1	5
7/6/2004	5:45	30.28	6.81	0.224	0.823	10.2	0.77	0.1	5
7/6/2004	6:00	30.21	6.82	0.224	0.82	10.3	0.78	0.1	5
7/6/2004	6:15	30.19	6.81	0.224	0.819	9.3	0.7	0.1	5
7/6/2004	6:30	30.18	6.81	0.224	0.815	9.3	0.7	0.1	5
7/6/2004	6:45	30.15	6.81	0.224	0.817	9.3	0.7	0.1	5
7/6/2004	7:00	30.11	6.81	0.224	0.815	8.1	0.61	0.1	5
7/6/2004	7:15	30.09	6.81	0.224	0.814	8.4	0.64	0.1	5
7/6/2004	7:30	30.08	6.8	0.224	0.809	8.2	0.61	0.1	5
7/6/2004	7:45	30.07	6.8	0.223	0.806	8.2	0.61	0.1	5
7/6/2004	8:00	30.07	6.8	0.223	0.805	8.2	0.62	0.1	5
7/6/2004	8:15	30.08	6.8	0.224	0.803	9.1	0.69	0.1	5
7/6/2004	8:30	30.09	6.8	0.224	0.803	9.3	0.7	0.1	5
7/6/2004	8:45	30.09	6.79	0.223	0.8	9.1	0.69	0.1	5
7/6/2004	9:00	30.11	6.79	0.223	0.808	9.7	0.73	0.1	5
7/6/2004	9:15	30.12	6.78	0.224	0.81	10	0.76	0.1	5
7/6/2004	9:30	30.17	6.77	0.223	0.804	11.4	0.86	0.1	5
7/6/2004	9:45	30.2	6.77	0.223	0.805	11.7	0.88	0.1	5
7/6/2004	10:00	30.23	6.77	0.223	0.804	12	0.9	0.1	5
7/6/2004	10:15	30.26	6.76	0.224	0.8	12.1	0.91	0.1	5
7/6/2004	10:30	30.3	6.76	0.225	0.798	12.6	0.95	0.1	5
7/6/2004	10:45	30.35	6.76	0.24	0.793	15.9	1.2	0.11	5
7/6/2004	11:00	30.29	6.75	0.289	0.797	23.2	1.75	0.14	5
7/6/2004	11:15	30.19	6.75	0.313	0.797	26.6	2	0.15	5
7/6/2004	11:30	30.92	6.59	0.0003	0.241	91.8	6.83	-0.01	5

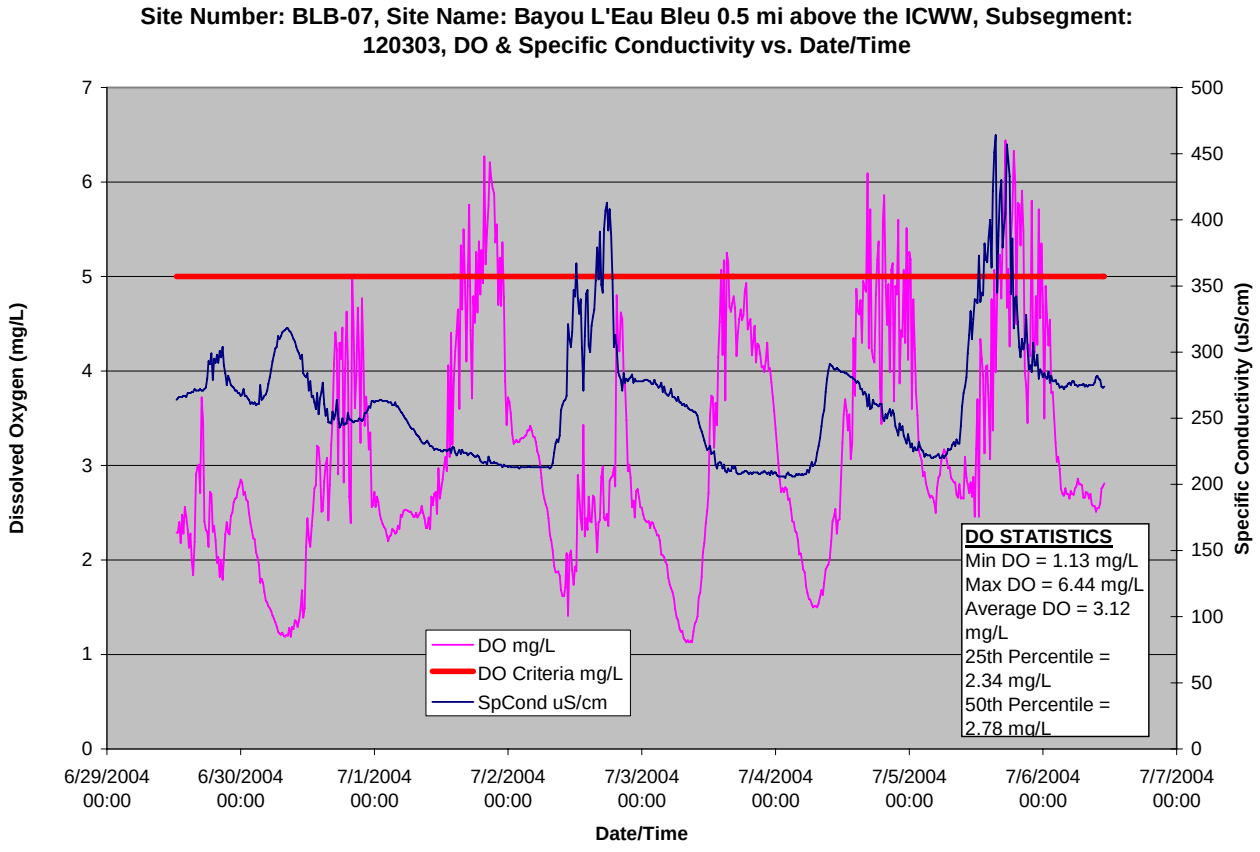
Site Number: BLB-07 Site Name: Bayou L'Eau Bleu 0.5 mi above the ICWW
Subsegment #: 120303 Date: 6/29/2004

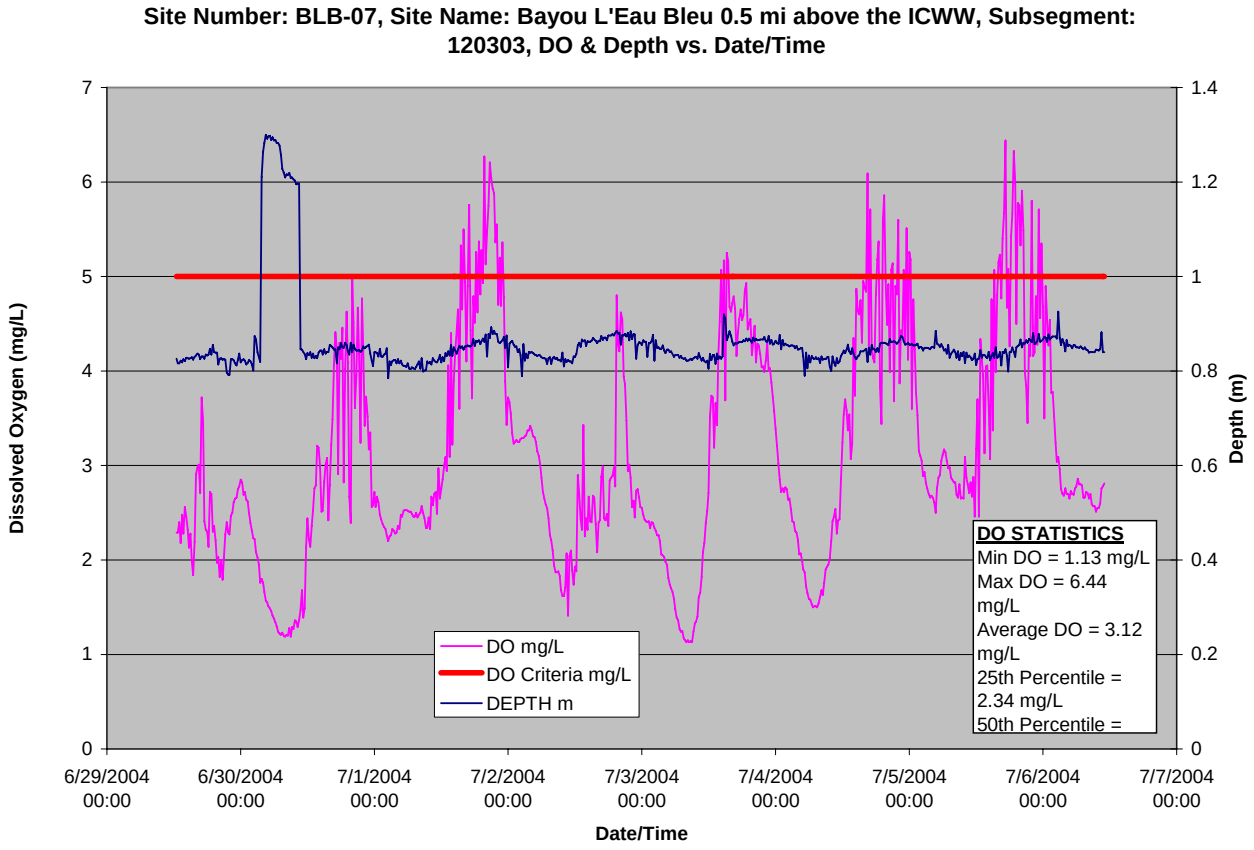
	Temp deg	pH	SpCond uS/cm	Depth	DO %	DO mg/L
Minimum	28.51	6.74	205.00	0.79	14.70	1.13
Maximum	32.22	7.19	464.00	1.30	88.50	6.44
Average	29.91	6.98	262.67	0.86	41.44	3.12
25th Percentile	29.26	6.90	225.00	0.83	30.60	2.34
30th Percentile	29.36	6.92	229.00	0.83	32.00	2.43
40th Percentile	29.57	6.96	249.00	0.84	34.70	2.64
50th Percentile	29.80	7.00	262.00	0.84	36.90	2.78
Standard Deviation	0.80	0.11	45.64	0.08	16.16	1.18
Variance	0.65	0.01	2082.72	0.01	261.09	1.40

Data Row Count	667
Total Values Failing DO Criteria	612
Percent failing DO Criteria	91.75 %


Site Number: BLB-07, Site Name: Bayou L'Eau Bleu 0.5 mi above the ICWW, Subsegment: 120303, DO & Temperature (deg C) vs. Date/Time
DO STATISTICS
Min DO = 1.13 mg/L
Max DO = 6.44 mg/L
Average DO = 3.12 mg/L
25th Percentile = 2.34 mg/L
50th Percentile = 2.78 mg/L
% Failing Criteria =
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
DO mg/L
DO Criteria mg/L
Temp øC
0
1
2
3
4
5
6
7
28
28.5
29
29.5
30
30.5
31
31.5
32
32.5
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BLB-07, Site Name: Bayou L'Eau Bleu 0.5 mi above the ICWW, Subsegment: 120303, DO & pH vs. Date/Time
DO STATISTICS
Min DO = 1.13 mg/L
Max DO = 6.44 mg/L
Average DO = 3.12 mg/L
25th Percentile = 2.34 mg/L
50th Percentile = 2.78
Dissolved Oxygen (mg/L)
pH
Date/Time
DO mg/L
DO Criteria mg/L
pH Units
0
1
2
3
4
5
6
7
6.7
6.75
6.8
6.85
6.9
6.95
7
7.05
7.1
7.15
7.2
7.25
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BLB-07, Site Name: Bayou L'Eau Bleu 0.5 mi above the ICWW, Subsegment: 120303, DO & Specific Conductivity vs. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (uS/cm)
Date/Time
DO mg/L
DO Criteria mg/L
SpCond uS/cm
DO STATISTICS
Min DO = 1.13 mg/L
Max DO = 6.44 mg/L
Average DO = 3.12 mg/L
25th Percentile = 2.34 mg/L
50th Percentile = 2.78 mg/L
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BLB-07, Site Name: Bayou L'Eau Bleu 0.5 mi above the ICWW, Subsegment: 120303, DO & Depth vs. Date/Time
Dissolved Oxygen (mg/L)
Depth (m)
Date/Time
DO mg/L
DO Criteria mg/L
DEPTH m
DO STATISTICS
Min DO = 1.13 mg/L
Max DO = 6.44 mg/L
Average DO = 3.12 mg/L
25th Percentile = 2.34 mg/L
50th Percentile =
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00

Bayou L'Eau Bleu Site BLB-07 Continuous Monitoring Data									
Date	Time	Temp	pH	Cond	Depth	DO %	DO	Sal	DO Criteria
		°C	units	uS/cm	m	Sat	mg/L	ppt	mg/L
6/29/2004	12:30	29.16	6.78	264	0.826	29.9	2.29	0.13	5
6/29/2004	12:45	29.17	6.78	265	0.816	29.9	2.29	0.13	5
6/29/2004	13:00	29.39	6.79	266	0.816	31.4	2.4	0.13	5
6/29/2004	13:15	29.14	6.79	266	0.822	28.5	2.18	0.13	5
6/29/2004	13:30	29.3	6.8	266	0.818	32.5	2.48	0.13	5
6/29/2004	13:45	29.17	6.79	267	0.825	29.7	2.28	0.13	5
6/29/2004	14:00	29.47	6.8	267	0.821	33.6	2.56	0.13	5
6/29/2004	14:15	29.54	6.79	266	0.828	32.3	2.46	0.13	5
6/29/2004	14:30	29.36	6.79	269	0.827	30.4	2.32	0.13	5
6/29/2004	14:45	29.36	6.79	269	0.826	27.9	2.13	0.13	5
6/29/2004	15:00	29.49	6.79	269	0.827	30	2.28	0.13	5
6/29/2004	15:15	29.37	6.78	270	0.829	25.9	1.98	0.13	5
6/29/2004	15:30	29.31	6.77	270	0.824	24	1.84	0.13	5
6/29/2004	15:45	29.56	6.79	272	0.83	28.8	2.19	0.13	5
6/29/2004	16:00	29.93	6.79	271	0.833	38.4	2.91	0.13	5
6/29/2004	16:15	29.88	6.8	271	0.837	39.4	2.98	0.13	5
6/29/2004	16:30	29.77	6.79	271	0.835	39.7	3.01	0.13	5
6/29/2004	16:45	29.54	6.79	272	0.825	35.6	2.71	0.13	5
6/29/2004	17:00	29.94	6.83	271	0.831	49.2	3.72	0.13	5
6/29/2004	17:15	29.76	6.83	271	0.831	45.8	3.47	0.13	5
6/29/2004	17:30	29.32	6.78	272	0.826	31.5	2.41	0.13	5
6/29/2004	17:45	29.28	6.78	273	0.835	30.4	2.32	0.13	5
6/29/2004	18:00	29.35	6.77	280	0.833	30.1	2.3	0.13	5
6/29/2004	18:15	29.27	6.75	293	0.835	28	2.14	0.14	5
6/29/2004	18:30	29.48	6.77	291	0.847	35.8	2.72	0.14	5
6/29/2004	18:45	29.47	6.77	299	0.835	35.5	2.7	0.14	5
6/29/2004	19:00	29.23	6.77	279	0.855	30	2.3	0.13	5
6/29/2004	19:15	29.29	6.75	295	0.84	30.9	2.36	0.14	5
6/29/2004	19:30	29.18	6.75	292	0.839	28.8	2.21	0.14	5
6/29/2004	19:45	29.19	6.74	298	0.839	25.7	1.97	0.14	5
6/29/2004	20:00	29.16	6.75	292	0.814	26.5	2.03	0.14	5
6/29/2004	20:15	29.16	6.74	301	0.826	23.7	1.82	0.15	5
6/29/2004	20:30	29.15	6.75	296	0.827	26.1	2	0.14	5
6/29/2004	20:45	29.17	6.74	304	0.824	23.4	1.79	0.15	5
6/29/2004	21:00	29.13	6.76	290	0.825	26.3	2.02	0.14	5
6/29/2004	21:15	29.07	6.79	284	0.824	29.6	2.27	0.14	5
6/29/2004	21:30	29.05	6.81	275	0.797	31.3	2.4	0.13	5
6/29/2004	21:45	29.07	6.79	282	0.792	29.9	2.29	0.14	5
6/29/2004	22:00	29.07	6.8	279	0.792	29.6	2.27	0.13	5
6/29/2004	22:15	29.06	6.81	275	0.825	32.2	2.47	0.13	5
6/29/2004	22:30	29.07	6.82	274	0.825	32.6	2.5	0.13	5

6/29/2004	22:45	29.07	6.83	273	0.823	34	2.61	0.13	5
6/29/2004	23:00	29.06	6.83	271	0.816	34.6	2.65	0.13	5
6/29/2004	23:15	29.05	6.83	271	0.812	34.7	2.66	0.13	5
6/29/2004	23:30	29.07	6.83	269	0.824	35.8	2.75	0.13	5
6/29/2004	23:45	29.08	6.84	269	0.837	36.2	2.78	0.13	5
6/30/2004	0:00	29.06	6.84	267	0.818	37.2	2.85	0.13	5
6/30/2004	0:15	29.05	6.83	268	0.823	36.7	2.82	0.13	5
6/30/2004	0:30	29.04	6.83	272	0.825	35	2.69	0.13	5
6/30/2004	0:45	29.02	6.83	267	0.822	35.4	2.72	0.13	5
6/30/2004	1:00	29	6.83	267	0.814	34.4	2.64	0.13	5
6/30/2004	1:15	28.98	6.83	265	0.817	34.1	2.62	0.13	5
6/30/2004	1:30	28.94	6.82	264	0.823	32.5	2.5	0.13	5
6/30/2004	1:45	28.9	6.83	261	0.821	31	2.39	0.12	5
6/30/2004	2:00	28.88	6.83	262	0.814	30	2.31	0.12	5
6/30/2004	2:15	28.86	6.82	261	0.801	29	2.23	0.12	5
6/30/2004	2:30	28.83	6.83	262	0.874	28.8	2.22	0.12	5
6/30/2004	2:45	28.81	6.83	260	0.867	27	2.08	0.12	5
6/30/2004	3:00	28.77	6.83	261	0.84	26.3	2.03	0.12	5
6/30/2004	3:15	28.75	6.82	261	0.829	25.3	1.95	0.12	5
6/30/2004	3:30	28.73	6.8	275	0.819	22.8	1.76	0.13	5
6/30/2004	3:45	28.71	6.81	264	1.211	23.3	1.8	0.13	5
6/30/2004	4:00	28.68	6.81	265	1.264	22.7	1.76	0.13	5
6/30/2004	4:15	28.65	6.81	267	1.283	21.4	1.66	0.13	5
6/30/2004	4:30	28.64	6.81	268	1.3	20.3	1.57	0.13	5
6/30/2004	4:45	28.62	6.81	271	1.292	20	1.55	0.13	5
6/30/2004	5:00	28.6	6.81	276	1.297	19.6	1.51	0.13	5
6/30/2004	5:15	28.59	6.81	281	1.298	19.3	1.49	0.14	5
6/30/2004	5:30	28.57	6.81	287	1.289	18.9	1.46	0.14	5
6/30/2004	5:45	28.56	6.81	293	1.295	18.3	1.41	0.14	5
6/30/2004	6:00	28.54	6.8	298	1.288	17.8	1.38	0.14	5
6/30/2004	6:15	28.53	6.8	303	1.289	17.3	1.34	0.15	5
6/30/2004	6:30	28.51	6.8	304	1.283	16.8	1.3	0.15	5
6/30/2004	6:45	28.51	6.79	312	1.283	16.1	1.24	0.15	5
6/30/2004	7:00	28.51	6.8	310	1.277	15.8	1.22	0.15	5
6/30/2004	7:15	28.51	6.8	312	1.257	15.6	1.21	0.15	5
6/30/2004	7:30	28.51	6.8	315	1.228	15.9	1.23	0.15	5
6/30/2004	7:45	28.52	6.8	316	1.22	15.5	1.2	0.15	5
6/30/2004	8:00	28.54	6.8	317	1.21	15.4	1.19	0.15	5
6/30/2004	8:15	28.56	6.8	318	1.216	15.7	1.21	0.15	5
6/30/2004	8:30	28.56	6.8	318	1.215	15.6	1.2	0.16	5
6/30/2004	8:45	28.6	6.81	316	1.219	16.6	1.28	0.15	5
6/30/2004	9:00	28.6	6.8	315	1.209	15.4	1.19	0.15	5
6/30/2004	9:15	28.62	6.81	313	1.21	16.7	1.29	0.15	5
6/30/2004	9:30	28.64	6.81	310	1.206	16.5	1.27	0.15	5
6/30/2004	9:45	28.68	6.81	308	1.203	17.7	1.36	0.15	5
6/30/2004	10:00	28.69	6.81	304	1.195	17.5	1.35	0.15	5

6/30/2004	10:15	28.68	6.81	301	1.197	16.8	1.29	0.15	5
6/30/2004	10:30	28.71	6.81	299	1.197	17.7	1.36	0.14	5
6/30/2004	10:45	28.75	6.82	295	0.846	19	1.47	0.14	5
6/30/2004	11:00	28.84	6.82	298	0.845	21.8	1.68	0.14	5
6/30/2004	11:15	28.77	6.81	284	0.841	18.1	1.39	0.14	5
6/30/2004	11:30	28.83	6.82	282	0.836	19.3	1.49	0.14	5
6/30/2004	11:45	29.18	6.85	281	0.825	28	2.14	0.14	5
6/30/2004	12:00	29.36	6.85	284	0.838	32	2.44	0.14	5
6/30/2004	12:15	29.13	6.84	271	0.834	28.9	2.22	0.13	5
6/30/2004	12:30	29.12	6.83	278	0.84	27.9	2.14	0.13	5
6/30/2004	12:45	29.23	6.86	266	0.828	30.9	2.36	0.13	5
6/30/2004	13:00	29.22	6.85	267	0.837	33	2.52	0.13	5
6/30/2004	13:15	29.3	6.86	262	0.827	36.1	2.76	0.12	5
6/30/2004	13:30	29.31	6.86	257	0.832	36.6	2.79	0.12	5
6/30/2004	13:45	29.48	6.87	269	0.827	42.1	3.21	0.13	5
6/30/2004	14:00	29.4	6.88	253	0.839	41.7	3.19	0.12	5
6/30/2004	14:15	29.41	6.86	265	0.843	39.2	2.99	0.13	5
6/30/2004	14:30	29.31	6.85	270	0.843	32.9	2.51	0.13	5
6/30/2004	14:45	29.39	6.85	277	0.835	33	2.52	0.13	5
6/30/2004	15:00	29.44	6.87	261	0.846	37.2	2.83	0.12	5
6/30/2004	15:15	29.46	6.87	252	0.837	39.5	3.01	0.12	5
6/30/2004	15:30	29.58	6.88	257	0.841	40.5	3.08	0.12	5
6/30/2004	15:45	29.32	6.87	247	0.84	31.7	2.42	0.12	5
6/30/2004	16:00	29.39	6.86	247	0.855	36.6	2.79	0.12	5
6/30/2004	16:15	29.53	6.89	246	0.853	42.3	3.22	0.12	5
6/30/2004	16:30	29.7	6.89	255	0.85	46	3.49	0.12	5
6/30/2004	16:45	29.82	6.89	249	0.845	53.8	4.07	0.12	5
6/30/2004	17:00	30.01	6.92	253	0.846	58.3	4.41	0.12	5
6/30/2004	17:15	30.13	6.92	264	0.816	56.2	4.23	0.13	5
6/30/2004	17:30	29.79	6.87	252	0.85	38.3	2.91	0.12	5
6/30/2004	17:45	30.13	6.9	243	0.846	57	4.3	0.11	5
6/30/2004	18:00	29.97	6.91	245	0.859	54.7	4.13	0.12	5
6/30/2004	18:15	30.18	6.95	250	0.85	59.2	4.46	0.12	5
6/30/2004	18:30	29.56	6.89	245	0.849	37.1	2.82	0.12	5
6/30/2004	18:45	29.97	6.9	246	0.86	53.3	4.02	0.12	5
6/30/2004	19:00	30.25	6.95	246	0.855	61.5	4.63	0.12	5
6/30/2004	19:15	30.09	6.9	254	0.842	54.2	4.08	0.12	5
6/30/2004	19:30	29.64	6.91	249	0.835	35.2	2.67	0.12	5
6/30/2004	19:45	29.55	6.85	249	0.86	31.4	2.39	0.12	5
6/30/2004	20:00	30.06	6.91	248	0.84	66.4	5.01	0.12	5
6/30/2004	20:15	29.92	6.96	247	0.856	59.6	4.51	0.12	5
6/30/2004	20:30	29.83	6.9	248	0.847	47.7	3.61	0.12	5
6/30/2004	20:45	29.82	6.89	248	0.843	52.1	3.95	0.12	5
6/30/2004	21:00	29.94	6.93	248	0.843	61.8	4.67	0.12	5
6/30/2004	21:15	29.78	6.91	250	0.844	55.2	4.18	0.12	5
6/30/2004	21:30	29.56	6.88	249	0.841	42.6	3.24	0.12	5

6/30/2004	21:45	29.78	6.93	248	0.843	62.9	4.77	0.12	5
6/30/2004	22:00	29.67	6.9	249	0.852	55.7	4.23	0.12	5
6/30/2004	22:15	29.52	6.87	254	0.848	44.9	3.42	0.12	5
6/30/2004	22:30	29.49	6.85	254	0.851	48.9	3.73	0.12	5
6/30/2004	22:45	29.4	6.87	256	0.853	46.1	3.52	0.12	5
6/30/2004	23:00	29.32	6.85	259	0.856	41.6	3.17	0.12	5
6/30/2004	23:15	29.33	6.85	258	0.837	43.8	3.35	0.12	5
6/30/2004	23:30	29.18	6.82	263	0.822	33.5	2.56	0.13	5
6/30/2004	23:45	29.17	6.81	263	0.811	33.7	2.58	0.13	5
7/1/2004	0:00	29.19	6.82	262	0.84	35.6	2.72	0.12	5
7/1/2004	0:15	29.17	6.82	263	0.84	33.4	2.56	0.13	5
7/1/2004	0:30	29.15	6.82	263	0.838	34.8	2.67	0.13	5
7/1/2004	0:45	29.14	6.81	263	0.831	34	2.61	0.13	5
7/1/2004	1:00	29.12	6.81	264	0.847	32.3	2.48	0.13	5
7/1/2004	1:15	29.1	6.8	264	0.831	31.7	2.43	0.13	5
7/1/2004	1:30	29.09	6.81	263	0.83	31	2.38	0.13	5
7/1/2004	1:45	29.07	6.81	263	0.835	30.6	2.35	0.13	5
7/1/2004	2:00	29.07	6.8	263	0.837	30.4	2.33	0.13	5
7/1/2004	2:15	29.06	6.81	263	0.848	29.5	2.26	0.13	5
7/1/2004	2:30	29.03	6.81	262	0.785	28.7	2.2	0.13	5
7/1/2004	2:45	29.04	6.81	262	0.82	29.3	2.25	0.12	5
7/1/2004	3:00	29.05	6.81	262	0.813	29.5	2.26	0.12	5
7/1/2004	3:15	29.07	6.82	260	0.821	30.3	2.33	0.12	5
7/1/2004	3:30	29.06	6.82	260	0.823	30.1	2.31	0.12	5
7/1/2004	3:45	29.07	6.82	262	0.823	29.7	2.28	0.12	5
7/1/2004	4:00	29.07	6.82	259	0.816	29.9	2.29	0.12	5
7/1/2004	4:15	29.06	6.83	259	0.825	30.7	2.36	0.12	5
7/1/2004	4:30	29.08	6.83	257	0.816	30.4	2.33	0.12	5
7/1/2004	4:45	29.08	6.84	255	0.822	32.3	2.48	0.12	5
7/1/2004	5:00	29.08	6.84	254	0.814	32.1	2.46	0.12	5
7/1/2004	5:15	29.09	6.85	252	0.811	32.9	2.52	0.12	5
7/1/2004	5:30	29.09	6.85	250	0.811	33	2.53	0.12	5
7/1/2004	5:45	29.1	6.86	249	0.809	33	2.53	0.12	5
7/1/2004	6:00	29.11	6.85	247	0.816	32.8	2.52	0.12	5
7/1/2004	6:15	29.11	6.86	245	0.805	32.8	2.51	0.12	5
7/1/2004	6:30	29.11	6.87	243	0.804	32.8	2.51	0.11	5
7/1/2004	6:45	29.11	6.87	242	0.808	32.5	2.49	0.11	5
7/1/2004	7:00	29.11	6.87	242	0.806	32.1	2.46	0.11	5
7/1/2004	7:15	29.12	6.87	240	0.804	32.1	2.46	0.11	5
7/1/2004	7:30	29.14	6.88	238	0.809	32.6	2.5	0.11	5
7/1/2004	7:45	29.15	6.88	237	0.814	32	2.45	0.11	5
7/1/2004	8:00	29.14	6.88	236	0.82	32.3	2.48	0.11	5
7/1/2004	8:15	29.17	6.89	234	0.805	32.7	2.5	0.11	5
7/1/2004	8:30	29.17	6.9	232	0.827	33.5	2.57	0.11	5
7/1/2004	8:45	29.18	6.9	231	0.799	32.6	2.5	0.11	5
7/1/2004	9:00	29.18	6.89	231	0.801	31.8	2.44	0.11	5

7/1/2004	9:15	29.18	6.89	232	0.802	30.5	2.34	0.11	5
7/1/2004	9:30	29.18	6.89	233	0.82	30.6	2.34	0.11	5
7/1/2004	9:45	29.21	6.9	231	0.816	32	2.45	0.11	5
7/1/2004	10:00	29.22	6.89	229	0.819	30.4	2.33	0.11	5
7/1/2004	10:15	29.35	6.9	229	0.814	35	2.67	0.11	5
7/1/2004	10:30	29.33	6.9	228	0.827	33.8	2.58	0.11	5
7/1/2004	10:45	29.35	6.91	226	0.822	35.4	2.7	0.11	5
7/1/2004	11:00	29.4	6.92	227	0.819	35.7	2.72	0.11	5
7/1/2004	11:15	29.32	6.91	227	0.818	32.6	2.49	0.11	5
7/1/2004	11:30	29.44	6.93	226	0.824	39	2.97	0.11	5
7/1/2004	11:45	29.38	6.92	226	0.834	34.7	2.65	0.11	5
7/1/2004	12:00	29.41	6.93	225	0.818	36.2	2.76	0.11	5
7/1/2004	12:15	29.45	6.92	225	0.829	37.4	2.85	0.11	5
7/1/2004	12:30	29.46	6.93	226	0.821	39.3	2.99	0.11	5
7/1/2004	12:45	29.53	6.93	226	0.838	40.5	3.09	0.11	5
7/1/2004	13:00	29.49	6.94	225	0.832	38.7	2.94	0.11	5
7/1/2004	13:15	29.79	6.97	226	0.842	53.6	4.06	0.11	5
7/1/2004	13:30	29.56	6.93	227	0.833	40.6	3.09	0.11	5
7/1/2004	13:45	29.84	7	224	0.855	58.1	4.4	0.1	5
7/1/2004	14:00	29.62	6.94	228	0.832	42.3	3.22	0.11	5
7/1/2004	14:15	29.93	6.97	228	0.85	51.6	3.9	0.11	5
7/1/2004	14:30	29.88	7.01	224	0.843	55.6	4.21	0.1	5
7/1/2004	14:45	29.9	7.01	222	0.837	58.5	4.42	0.1	5
7/1/2004	15:00	29.95	7.02	224	0.845	61.5	4.65	0.1	5
7/1/2004	15:15	29.77	6.97	226	0.853	47.5	3.6	0.11	5
7/1/2004	15:30	30.34	7.04	223	0.849	71	5.33	0.1	5
7/1/2004	15:45	30.2	7.07	226	0.852	61.8	4.65	0.11	5
7/1/2004	16:00	30.47	7.07	224	0.845	73.5	5.5	0.1	5
7/1/2004	16:15	30.29	7.01	224	0.852	65.7	4.94	0.1	5
7/1/2004	16:30	30.04	7.01	224	0.852	54.3	4.1	0.1	5
7/1/2004	16:45	30.24	7.03	222	0.854	65.2	4.9	0.1	5
7/1/2004	17:00	30.57	7.07	223	0.852	77	5.76	0.1	5
7/1/2004	17:15	30.2	7.05	224	0.852	58.8	4.43	0.1	5
7/1/2004	17:30	29.9	6.99	223	0.856	49	3.71	0.1	5
7/1/2004	17:45	30.23	7.04	222	0.868	63.7	4.79	0.1	5
7/1/2004	18:00	30.23	7.01	221	0.853	60	4.51	0.1	5
7/1/2004	18:15	30.47	7.04	221	0.864	70.2	5.26	0.1	5
7/1/2004	18:30	30.44	7.03	222	0.862	61.6	4.62	0.1	5
7/1/2004	18:45	30.54	7.06	221	0.865	71.8	5.37	0.1	5
7/1/2004	19:00	30.32	7.04	218	0.857	64.1	4.81	0.1	5
7/1/2004	19:15	30.49	7.08	217	0.863	70.6	5.28	0.1	5
7/1/2004	19:30	30.37	7.06	216	0.869	65.7	4.93	0.1	5
7/1/2004	19:45	30.71	7.1	217	0.862	84.1	6.27	0.1	5
7/1/2004	20:00	30.39	7.1	217	0.877	68.4	5.13	0.1	5
7/1/2004	20:15	30.56	7.14	215	0.831	73.2	5.48	0.1	5
7/1/2004	20:30	30.74	7.06	221	0.878	77.1	5.75	0.1	5

7/1/2004	20:45	30.71	7.17	218	0.87	83.2	6.21	0.1	5
7/1/2004	21:00	30.82	7.14	216	0.893	81.1	6.04	0.1	5
7/1/2004	21:15	30.56	7.16	216	0.878	79.3	5.93	0.1	5
7/1/2004	21:30	30.62	7.07	217	0.885	78.7	5.88	0.1	5
7/1/2004	21:45	30.46	7.11	216	0.878	71.6	5.36	0.1	5
7/1/2004	22:00	30.47	7.12	216	0.878	74.1	5.55	0.1	5
7/1/2004	22:15	30.31	7.1	215	0.862	62.6	4.7	0.1	5
7/1/2004	22:30	30.31	7.11	215	0.859	69.2	5.2	0.1	5
7/1/2004	22:45	30.22	7.12	215	0.862	62.3	4.69	0.1	5
7/1/2004	23:00	30.17	7.12	213	0.865	71.2	5.36	0.1	5
7/1/2004	23:15	30.08	7.09	215	0.872	63.3	4.78	0.1	5
7/1/2004	23:30	29.95	7.06	214	0.849	51.5	3.89	0.1	5
7/1/2004	23:45	29.9	7.03	214	0.875	45.3	3.43	0.1	5
7/2/2004	0:00	29.9	7.02	213	0.808	49.2	3.72	0.1	5
7/2/2004	0:15	29.88	7.04	214	0.858	48.5	3.67	0.1	5
7/2/2004	0:30	29.82	7.04	213	0.861	46.9	3.55	0.1	5
7/2/2004	0:45	29.77	7.03	213	0.864	44	3.34	0.1	5
7/2/2004	1:00	29.75	7.03	213	0.856	42.6	3.23	0.1	5
7/2/2004	1:15	29.77	7.03	213	0.851	42.8	3.25	0.1	5
7/2/2004	1:30	29.78	7.03	213	0.852	43.1	3.27	0.1	5
7/2/2004	1:45	29.78	7.03	213	0.84	42.9	3.25	0.1	5
7/2/2004	2:00	29.78	7.03	212	0.846	42.9	3.25	0.1	5
7/2/2004	2:15	29.79	7.02	213	0.834	43.3	3.28	0.1	5
7/2/2004	2:30	29.78	7.02	213	0.789	43.4	3.29	0.1	5
7/2/2004	2:45	29.79	7.03	213	0.857	43.4	3.29	0.1	5
7/2/2004	3:00	29.8	7.03	213	0.822	43.7	3.31	0.1	5
7/2/2004	3:15	29.79	7.03	213	0.837	43.8	3.32	0.1	5
7/2/2004	3:30	29.8	7.03	213	0.827	44.4	3.37	0.1	5
7/2/2004	3:45	29.8	7.03	214	0.841	44.4	3.37	0.1	5
7/2/2004	4:00	29.81	7.03	213	0.839	45.1	3.42	0.1	5
7/2/2004	4:15	29.8	7.03	213	0.84	44.5	3.37	0.1	5
7/2/2004	4:30	29.79	7.03	213	0.838	43.6	3.31	0.1	5
7/2/2004	4:45	29.78	7.03	213	0.835	43.5	3.3	0.1	5
7/2/2004	5:00	29.79	7.03	213	0.834	42.8	3.25	0.1	5
7/2/2004	5:15	29.77	7.02	213	0.832	41.5	3.15	0.1	5
7/2/2004	5:30	29.77	7.02	213	0.834	40.9	3.1	0.1	5
7/2/2004	5:45	29.76	7.01	213	0.833	39.7	3.01	0.1	5
7/2/2004	6:00	29.75	7	213	0.829	37.8	2.87	0.1	5
7/2/2004	6:15	29.73	7	213	0.827	35.9	2.72	0.1	5
7/2/2004	6:30	29.72	6.99	213	0.827	34.9	2.65	0.1	5
7/2/2004	6:45	29.71	6.99	213	0.826	34.1	2.59	0.1	5
7/2/2004	7:00	29.7	6.99	213	0.815	33.6	2.55	0.1	5
7/2/2004	7:15	29.66	6.98	213	0.827	32.2	2.44	0.1	5
7/2/2004	7:30	29.64	6.98	212	0.829	29.8	2.26	0.1	5
7/2/2004	7:45	29.63	6.98	213	0.815	29.1	2.21	0.1	5
7/2/2004	8:00	29.56	6.96	216	0.827	27.6	2.1	0.1	5

7/2/2004	8:15	29.5	6.95	224	0.83	25.4	1.94	0.1	5
7/2/2004	8:30	29.47	6.94	231	0.825	24.5	1.87	0.11	5
7/2/2004	8:45	29.46	6.94	234	0.828	24.5	1.87	0.11	5
7/2/2004	9:00	29.51	6.94	232	0.823	24.7	1.88	0.11	5
7/2/2004	9:15	29.5	6.95	237	0.823	24	1.83	0.11	5
7/2/2004	9:30	29.46	6.93	256	0.82	22	1.68	0.12	5
7/2/2004	9:45	29.47	6.92	260	0.839	21.2	1.62	0.12	5
7/2/2004	10:00	29.49	6.93	263	0.81	21.3	1.62	0.13	5
7/2/2004	10:15	29.54	6.93	264	0.825	22.4	1.71	0.13	5
7/2/2004	10:30	29.64	6.93	267	0.819	27.2	2.07	0.13	5
7/2/2004	10:45	29.54	6.89	321	0.823	18.5	1.41	0.16	5
7/2/2004	11:00	29.72	6.9	310	0.82	26.9	2.04	0.15	5
7/2/2004	11:15	29.8	6.92	304	0.82	27.8	2.1	0.15	5
7/2/2004	11:30	29.76	6.91	315	0.816	25	1.89	0.15	5
7/2/2004	11:45	29.76	6.89	347	0.831	23	1.74	0.17	5
7/2/2004	12:00	29.8	6.91	342	0.83	25.5	1.93	0.17	5
7/2/2004	12:15	29.83	6.9	367	0.836	24.8	1.88	0.18	5
7/2/2004	12:30	30.12	6.93	341	0.854	38.4	2.9	0.17	5
7/2/2004	12:45	30.07	6.94	329	0.86	35.7	2.69	0.16	5
7/2/2004	13:00	30	6.92	340	0.851	32.2	2.43	0.17	5
7/2/2004	13:15	29.94	6.93	303	0.867	30.7	2.32	0.15	5
7/2/2004	13:30	30	6.97	271	0.863	45.4	3.43	0.13	5
7/2/2004	13:45	29.85	6.93	312	0.865	29.7	2.25	0.15	5
7/2/2004	14:00	29.89	6.92	344	0.853	32.3	2.44	0.17	5
7/2/2004	14:15	29.9	6.93	347	0.863	30.7	2.32	0.17	5
7/2/2004	14:30	29.85	6.94	305	0.862	35.3	2.67	0.15	5
7/2/2004	14:45	29.79	6.94	300	0.862	31.8	2.41	0.15	5
7/2/2004	15:00	29.81	6.94	320	0.864	31.7	2.4	0.16	5
7/2/2004	15:15	29.81	6.94	327	0.87	35.4	2.68	0.16	5
7/2/2004	15:30	29.79	6.94	332	0.867	35.2	2.66	0.16	5
7/2/2004	15:45	29.78	6.92	354	0.864	31.5	2.38	0.17	5
7/2/2004	16:00	29.76	6.9	379	0.859	27.4	2.08	0.19	5
7/2/2004	16:15	29.77	6.92	355	0.864	31.7	2.4	0.17	5
7/2/2004	16:30	29.83	6.9	391	0.863	32	2.42	0.19	5
7/2/2004	16:45	29.89	6.93	351	0.874	38	2.88	0.17	5
7/2/2004	17:00	30.08	6.93	345	0.866	39.7	2.99	0.17	5
7/2/2004	17:15	29.9	6.91	393	0.871	32.3	2.44	0.2	5
7/2/2004	17:30	29.93	6.91	407	0.871	32.1	2.42	0.2	5
7/2/2004	17:45	29.96	6.91	413	0.865	33	2.49	0.21	5
7/2/2004	18:00	29.9	6.9	392	0.875	31.2	2.36	0.19	5
7/2/2004	18:15	30.07	6.91	408	0.875	37.7	2.84	0.2	5
7/2/2004	18:30	30.01	6.92	390	0.875	38	2.87	0.19	5
7/2/2004	18:45	29.92	6.92	355	0.878	38.2	2.89	0.18	5
7/2/2004	19:00	29.82	6.93	304	0.875	39.3	2.98	0.15	5
7/2/2004	19:15	29.85	6.91	313	0.88	36.7	2.78	0.15	5

7/2/2004	19:30	30.18	6.98	304	0.885	63.8	4.8	0.15	5
7/2/2004	19:45	30.01	6.97	285	0.879	56.7	4.28	0.14	5
7/2/2004	20:00	29.99	6.97	282	0.881	55.8	4.21	0.14	5
7/2/2004	20:15	30	6.99	279	0.856	61.1	4.62	0.13	5
7/2/2004	20:30	29.93	6.97	271	0.876	60.1	4.55	0.13	5
7/2/2004	20:45	29.82	6.97	284	0.875	52	3.94	0.14	5
7/2/2004	21:00	29.78	6.95	277	0.878	50.9	3.86	0.13	5
7/2/2004	21:15	29.72	6.94	280	0.873	45.9	3.48	0.13	5
7/2/2004	21:30	29.67	6.93	278	0.881	38.7	2.94	0.13	5
7/2/2004	21:45	29.65	6.93	280	0.865	39.6	3.01	0.13	5
7/2/2004	22:00	29.58	6.94	281	0.884	37.8	2.87	0.14	5
7/2/2004	22:15	29.56	6.92	283	0.868	33.7	2.56	0.14	5
7/2/2004	22:30	29.49	6.93	277	0.878	34.6	2.63	0.13	5
7/2/2004	22:45	29.47	6.92	280	0.877	32.2	2.45	0.13	5
7/2/2004	23:00	29.46	6.94	278	0.826	35.8	2.73	0.13	5
7/2/2004	23:15	29.45	6.94	278	0.855	36.1	2.75	0.13	5
7/2/2004	23:30	29.43	6.94	278	0.861	34.9	2.66	0.13	5
7/2/2004	23:45	29.41	6.94	278	0.86	33.6	2.56	0.13	5
7/3/2004	0:00	29.4	6.95	278	0.855	33.5	2.55	0.13	5
7/3/2004	0:15	29.36	6.95	278	0.865	32.5	2.48	0.13	5
7/3/2004	0:30	29.36	6.95	279	0.862	31.9	2.43	0.13	5
7/3/2004	0:45	29.34	6.95	279	0.862	31.6	2.41	0.13	5
7/3/2004	1:00	29.34	6.96	279	0.83	31.4	2.4	0.13	5
7/3/2004	1:15	29.33	6.96	278	0.859	31.5	2.41	0.13	5
7/3/2004	1:30	29.29	6.96	278	0.859	30.6	2.34	0.13	5
7/3/2004	1:45	29.29	6.97	276	0.863	31.4	2.4	0.13	5
7/3/2004	2:00	29.28	6.97	276	0.876	31.3	2.39	0.13	5
7/3/2004	2:15	29.27	6.97	279	0.822	30.6	2.34	0.13	5
7/3/2004	2:30	29.25	6.97	276	0.865	30.2	2.31	0.13	5
7/3/2004	2:45	29.23	6.97	275	0.849	29.5	2.26	0.13	5
7/3/2004	3:00	29.23	6.97	273	0.85	29.5	2.26	0.13	5
7/3/2004	3:15	29.2	6.98	274	0.847	28.7	2.2	0.13	5
7/3/2004	3:30	29.19	6.97	277	0.847	26.9	2.06	0.13	5
7/3/2004	3:45	29.17	6.98	270	0.854	26.8	2.05	0.13	5
7/3/2004	4:00	29.16	6.98	274	0.843	26.5	2.03	0.13	5
7/3/2004	4:15	29.13	6.98	269	0.838	25.8	1.98	0.13	5
7/3/2004	4:30	29.12	6.98	268	0.845	25.4	1.95	0.13	5
7/3/2004	4:45	29.08	6.98	267	0.845	23.5	1.81	0.13	5
7/3/2004	5:00	29.06	6.97	269	0.84	22.6	1.74	0.13	5
7/3/2004	5:15	29.05	6.97	272	0.842	22.1	1.7	0.13	5
7/3/2004	5:30	29.02	6.98	266	0.836	21.6	1.66	0.13	5
7/3/2004	5:45	28.98	6.97	266	0.83	20.7	1.59	0.13	5
7/3/2004	6:00	28.95	6.97	265	0.834	19.2	1.48	0.13	5
7/3/2004	6:15	28.94	6.97	263	0.834	18	1.39	0.13	5
7/3/2004	6:30	28.91	6.97	266	0.834	17.6	1.36	0.13	5

7/3/2004	6:45	28.87	6.97	262	0.828	16.6	1.27	0.12	5
7/3/2004	7:00	28.87	6.97	262	0.832	16.1	1.24	0.12	5
7/3/2004	7:15	28.85	6.97	260	0.827	16.3	1.25	0.12	5
7/3/2004	7:30	28.83	6.96	261	0.826	15.2	1.17	0.12	5
7/3/2004	7:45	28.82	6.96	259	0.827	14.9	1.15	0.12	5
7/3/2004	8:00	28.83	6.96	260	0.822	14.7	1.13	0.12	5
7/3/2004	8:15	28.83	6.96	258	0.822	14.9	1.15	0.12	5
7/3/2004	8:30	28.84	6.96	257	0.823	14.7	1.13	0.12	5
7/3/2004	8:45	28.84	6.96	256	0.826	14.9	1.14	0.12	5
7/3/2004	9:00	28.85	6.96	256	0.823	14.7	1.13	0.12	5
7/3/2004	9:15	28.88	6.97	255	0.827	16.2	1.24	0.12	5
7/3/2004	9:30	28.91	6.96	255	0.829	17.3	1.33	0.12	5
7/3/2004	9:45	28.94	6.97	254	0.83	17.5	1.35	0.12	5
7/3/2004	10:00	28.95	6.97	252	0.826	18.1	1.4	0.12	5
7/3/2004	10:15	29.02	6.98	247	0.838	20.9	1.61	0.12	5
7/3/2004	10:30	29.06	6.98	243	0.829	21.5	1.65	0.11	5
7/3/2004	10:45	29.11	6.99	240	0.822	23.7	1.82	0.11	5
7/3/2004	11:00	29.21	6.99	237	0.828	27.2	2.08	0.11	5
7/3/2004	11:15	29.25	7.01	233	0.821	28.5	2.18	0.11	5
7/3/2004	11:30	29.32	7.02	229	0.818	31.3	2.39	0.11	5
7/3/2004	11:45	29.38	7.03	226	0.822	33.1	2.52	0.11	5
7/3/2004	12:00	29.5	7.03	227	0.805	35.6	2.71	0.11	5
7/3/2004	12:15	29.9	7.06	229	0.836	46.5	3.52	0.11	5
7/3/2004	12:30	30.01	7.07	223	0.823	49.6	3.74	0.1	5
7/3/2004	12:45	30.1	7.07	224	0.834	49.3	3.72	0.1	5
7/3/2004	13:00	29.89	7.07	225	0.834	42.2	3.19	0.11	5
7/3/2004	13:15	29.98	7.08	215	0.815	48.4	3.66	0.1	5
7/3/2004	13:30	29.85	7.09	212	0.837	45.3	3.43	0.1	5
7/3/2004	13:45	30.12	7.11	216	0.825	55.1	4.15	0.1	5
7/3/2004	14:00	30.2	7.1	217	0.831	60	4.52	0.1	5
7/3/2004	14:15	30.5	7.14	216	0.826	67.7	5.07	0.1	5
7/3/2004	14:30	30.09	7.11	212	0.831	55.4	4.17	0.1	5
7/3/2004	14:45	30.4	7.14	215	0.92	69	5.17	0.1	5
7/3/2004	15:00	30.02	7.12	210	0.911	48.9	3.69	0.1	5
7/3/2004	15:15	30.44	7.16	209	0.865	70.1	5.25	0.1	5
7/3/2004	15:30	30.47	7.14	212	0.873	68.9	5.16	0.1	5
7/3/2004	15:45	30.3	7.13	210	0.884	62.3	4.68	0.1	5
7/3/2004	16:00	30.34	7.13	210	0.875	61.7	4.63	0.1	5
7/3/2004	16:15	30.43	7.13	214	0.862	63	4.72	0.1	5
7/3/2004	16:30	30.45	7.13	212	0.854	63.9	4.79	0.1	5
7/3/2004	16:45	30.42	7.11	214	0.859	62.1	4.66	0.1	5
7/3/2004	17:00	30.41	7.12	209	0.858	55.4	4.16	0.1	5
7/3/2004	17:15	30.41	7.13	208	0.86	58.8	4.41	0.1	5
7/3/2004	17:30	30.4	7.14	208	0.861	60.7	4.55	0.1	5
7/3/2004	17:45	30.43	7.14	208	0.862	62	4.65	0.1	5

7/3/2004	18:00	30.43	7.13	209	0.861	60.6	4.54	0.1	5
7/3/2004	18:15	30.45	7.14	209	0.865	61.2	4.59	0.1	5
7/3/2004	18:30	30.48	7.14	210	0.863	64.8	4.85	0.1	5
7/3/2004	18:45	30.49	7.15	210	0.869	65.9	4.93	0.1	5
7/3/2004	19:00	30.48	7.13	209	0.864	59.3	4.44	0.1	5
7/3/2004	19:15	30.5	7.13	208	0.869	60.1	4.5	0.1	5
7/3/2004	19:30	30.5	7.13	209	0.865	60.8	4.55	0.1	5
7/3/2004	19:45	30.5	7.13	208	0.86	55.6	4.17	0.1	5
7/3/2004	20:00	30.51	7.13	209	0.871	57.7	4.32	0.1	5
7/3/2004	20:15	30.51	7.14	209	0.864	59.8	4.48	0.1	5
7/3/2004	20:30	30.49	7.12	209	0.868	54.6	4.09	0.1	5
7/3/2004	20:45	30.48	7.12	209	0.865	57.3	4.29	0.1	5
7/3/2004	21:00	30.47	7.12	208	0.866	56.9	4.27	0.1	5
7/3/2004	21:15	30.46	7.12	208	0.867	55.8	4.18	0.1	5
7/3/2004	21:30	30.45	7.11	209	0.867	53.8	4.04	0.1	5
7/3/2004	21:45	30.43	7.11	209	0.867	54	4.05	0.1	5
7/3/2004	22:00	30.41	7.11	210	0.872	53.1	3.99	0.1	5
7/3/2004	22:15	30.39	7.11	209	0.863	54.7	4.11	0.1	5
7/3/2004	22:30	30.34	7.12	208	0.862	57.2	4.3	0.1	5
7/3/2004	22:45	30.28	7.11	209	0.874	53.3	4	0.1	5
7/3/2004	23:00	30.21	7.11	207	0.858	53.6	4.03	0.1	5
7/3/2004	23:15	30.16	7.1	210	0.866	51.6	3.88	0.1	5
7/3/2004	23:30	30.1	7.1	208	0.856	49.4	3.72	0.1	5
7/3/2004	23:45	30.04	7.09	209	0.858	47.5	3.58	0.1	5
7/4/2004	0:00	29.98	7.08	209	0.864	44.9	3.39	0.1	5
7/4/2004	0:15	29.9	7.07	207	0.859	42.4	3.21	0.1	5
7/4/2004	0:30	29.85	7.07	206	0.858	39.9	3.02	0.09	5
7/4/2004	0:45	29.8	7.06	206	0.876	37.5	2.85	0.09	5
7/4/2004	1:00	29.74	7.05	206	0.846	35.9	2.72	0.09	5
7/4/2004	1:15	29.7	7.05	206	0.866	36.4	2.76	0.09	5
7/4/2004	1:30	29.66	7.05	206	0.854	35.9	2.72	0.1	5
7/4/2004	1:45	29.65	7.05	205	0.858	36.5	2.77	0.09	5
7/4/2004	2:00	29.63	7.05	208	0.855	36.2	2.75	0.1	5
7/4/2004	2:15	29.61	7.04	209	0.854	34.8	2.64	0.1	5
7/4/2004	2:30	29.58	7.04	207	0.852	34.9	2.65	0.1	5
7/4/2004	2:45	29.53	7.04	207	0.854	33.4	2.54	0.1	5
7/4/2004	3:00	29.51	7.03	206	0.854	31.7	2.41	0.1	5
7/4/2004	3:15	29.49	7.03	206	0.853	31.5	2.4	0.09	5
7/4/2004	3:30	29.46	7.03	206	0.848	30.3	2.31	0.1	5
7/4/2004	3:45	29.43	7.02	208	0.853	30	2.29	0.1	5
7/4/2004	4:00	29.41	7.02	207	0.845	29	2.21	0.1	5
7/4/2004	4:15	29.37	7.02	208	0.846	27	2.06	0.1	5
7/4/2004	4:30	29.36	7.02	207	0.848	27.1	2.07	0.1	5
7/4/2004	4:45	29.32	7.01	208	0.849	26	1.99	0.1	5
7/4/2004	5:00	29.3	7.01	207	0.831	24.8	1.9	0.1	5

7/4/2004	5:15	29.27	7.01	208	0.79	24.5	1.87	0.1	5
7/4/2004	5:30	29.24	7	208	0.839	22.5	1.72	0.1	5
7/4/2004	5:45	29.22	7	211	0.806	21.5	1.65	0.1	5
7/4/2004	6:00	29.21	6.99	209	0.833	20.8	1.59	0.1	5
7/4/2004	6:15	29.18	6.99	213	0.818	20.6	1.58	0.1	5
7/4/2004	6:30	29.17	6.99	217	0.832	19.9	1.53	0.1	5
7/4/2004	6:45	29.16	6.99	214	0.827	19.6	1.5	0.1	5
7/4/2004	7:00	29.15	6.99	215	0.825	19.7	1.51	0.1	5
7/4/2004	7:15	29.17	6.99	218	0.829	19.7	1.51	0.1	5
7/4/2004	7:30	29.15	6.99	224	0.825	19.6	1.5	0.1	5
7/4/2004	7:45	29.17	6.99	229	0.827	20.1	1.54	0.11	5
7/4/2004	8:00	29.2	7	235	0.817	21	1.61	0.11	5
7/4/2004	8:15	29.22	7	244	0.831	21.9	1.68	0.12	5
7/4/2004	8:30	29.23	7	252	0.824	21.3	1.63	0.12	5
7/4/2004	8:45	29.28	7	256	0.826	23	1.76	0.12	5
7/4/2004	9:00	29.34	7.01	270	0.825	24.8	1.9	0.13	5
7/4/2004	9:15	29.36	7	280	0.829	25.3	1.93	0.13	5
7/4/2004	9:30	29.39	7	286	0.83	25.5	1.95	0.14	5
7/4/2004	9:45	29.45	7	291	0.809	26.5	2.02	0.14	5
7/4/2004	10:00	29.54	7.01	290	0.8	28.9	2.2	0.14	5
7/4/2004	10:15	29.67	7.01	289	0.831	31.7	2.41	0.14	5
7/4/2004	10:30	29.78	7.01	287	0.818	32.5	2.46	0.14	5
7/4/2004	10:45	29.79	7	287	0.811	33.5	2.54	0.14	5
7/4/2004	11:00	29.66	7	288	0.827	30	2.28	0.14	5
7/4/2004	11:15	29.77	7.01	287	0.816	31.9	2.42	0.14	5
7/4/2004	11:30	29.75	7	286	0.82	32.1	2.43	0.14	5
7/4/2004	11:45	30	7.01	285	0.832	37.9	2.86	0.14	5
7/4/2004	12:00	30.12	7.02	285	0.837	43	3.24	0.14	5
7/4/2004	12:15	30.42	7.02	285	0.843	47.2	3.54	0.14	5
7/4/2004	12:30	30.39	7.03	284	0.838	49.4	3.7	0.14	5
7/4/2004	12:45	30.42	7.04	284	0.845	47.8	3.58	0.14	5
7/4/2004	13:00	30.34	7.03	283	0.856	44.9	3.37	0.14	5
7/4/2004	13:15	30.44	7.03	282	0.842	47.3	3.54	0.14	5
7/4/2004	13:30	30.15	7.01	281	0.836	40.8	3.07	0.14	5
7/4/2004	13:45	30.36	7.03	281	0.848	43.1	3.23	0.14	5
7/4/2004	14:00	31.16	7.07	280	0.837	58.7	4.35	0.13	5
7/4/2004	14:15	30.5	7.04	279	0.829	50	3.74	0.13	5
7/4/2004	14:30	31.1	7.06	277	0.825	65.8	4.87	0.13	5
7/4/2004	14:45	30.94	7.06	278	0.831	62.4	4.64	0.13	5
7/4/2004	15:00	30.98	7.08	277	0.833	62	4.6	0.13	5
7/4/2004	15:15	30.92	7.08	272	0.842	63.9	4.75	0.13	5
7/4/2004	15:30	30.73	7.05	272	0.842	57.7	4.3	0.13	5
7/4/2004	15:45	30.95	7.09	268	0.842	66.7	4.95	0.13	5
7/4/2004	16:00	30.89	7.09	270	0.844	65.7	4.88	0.13	5
7/4/2004	16:15	30.77	7.08	268	0.847	65	4.84	0.13	5

7/4/2004	16:30	31.15	7.13	259	0.819	82.3	6.09	0.12	5
7/4/2004	16:45	30.7	7.08	268	0.849	56.8	4.24	0.13	5
7/4/2004	17:00	31.16	7.13	257	0.835	77.1	5.71	0.12	5
7/4/2004	17:15	30.77	7.14	258	0.855	56.6	4.22	0.12	5
7/4/2004	17:30	30.57	7.05	264	0.846	55.4	4.14	0.13	5
7/4/2004	17:45	30.57	7.06	261	0.846	54.7	4.09	0.12	5
7/4/2004	18:00	30.74	7.08	261	0.841	64.6	4.81	0.12	5
7/4/2004	18:15	30.96	7.09	260	0.848	69.7	5.18	0.12	5
7/4/2004	18:30	31.01	7.09	259	0.841	72.3	5.37	0.12	5
7/4/2004	18:45	30.61	7.06	261	0.857	51.3	3.83	0.12	5
7/4/2004	19:00	30.47	7.06	261	0.86	45.9	3.44	0.12	5
7/4/2004	19:15	31.05	7.11	250	0.859	75.5	5.6	0.12	5
7/4/2004	19:30	31.09	7.14	248	0.86	79.1	5.86	0.12	5
7/4/2004	19:45	31.2	7.12	253	0.859	67	4.95	0.12	5
7/4/2004	20:00	30.85	7.09	250	0.857	60.4	4.49	0.12	5
7/4/2004	20:15	31.02	7.08	254	0.855	66.4	4.92	0.12	5
7/4/2004	20:30	30.74	7.06	257	0.868	53.5	3.99	0.12	5
7/4/2004	20:45	30.96	7.11	252	0.861	68.3	5.07	0.12	5
7/4/2004	21:00	31.22	7.11	256	0.862	69.5	5.14	0.12	5
7/4/2004	21:15	31.03	7.07	253	0.863	49.6	3.68	0.12	5
7/4/2004	21:30	30.98	7.1	244	0.861	66	4.9	0.12	5
7/4/2004	21:45	31.11	7.1	241	0.858	65	4.81	0.11	5
7/4/2004	22:00	31.2	7.13	237	0.861	75.7	5.6	0.11	5
7/4/2004	22:15	30.76	7.06	246	0.866	51.9	3.87	0.12	5
7/4/2004	22:30	30.99	7.11	241	0.874	59.7	4.43	0.11	5
7/4/2004	22:45	31.02	7.11	244	0.872	58.8	4.36	0.12	5
7/4/2004	23:00	31	7.16	237	0.863	68.4	5.07	0.11	5
7/4/2004	23:15	30.92	7.14	234	0.856	57.8	4.3	0.11	5
7/4/2004	23:30	30.95	7.17	231	0.857	74.2	5.51	0.11	5
7/4/2004	23:45	30.85	7.12	238	0.86	55.3	4.12	0.11	5
7/5/2004	0:00	30.87	7.16	233	0.856	70.7	5.26	0.11	5
7/5/2004	0:15	30.75	7.16	228	0.856	69.5	5.18	0.11	5
7/5/2004	0:30	30.54	7.11	231	0.857	48.2	3.6	0.11	5
7/5/2004	0:45	30.56	7.13	225	0.854	63.6	4.76	0.11	5
7/5/2004	1:00	30.47	7.1	228	0.854	56.4	4.23	0.11	5
7/5/2004	1:15	30.38	7.09	226	0.855	50.3	3.77	0.11	5
7/5/2004	1:30	30.34	7.08	226	0.858	47	3.53	0.11	5
7/5/2004	1:45	30.34	7.07	232	0.848	41.9	3.15	0.11	5
7/5/2004	2:00	30.28	7.06	228	0.851	41.3	3.1	0.11	5
7/5/2004	2:15	30.23	7.06	226	0.85	40.6	3.05	0.11	5
7/5/2004	2:30	30.21	7.06	225	0.843	38.4	2.89	0.11	5
7/5/2004	2:45	30.18	7.06	221	0.849	38.9	2.93	0.1	5
7/5/2004	3:00	30.15	7.05	223	0.849	37.3	2.81	0.1	5
7/5/2004	3:15	30.15	7.05	222	0.849	36.6	2.76	0.1	5
7/5/2004	3:30	30.13	7.05	222	0.848	35.8	2.7	0.1	5

7/5/2004	3:45	30.12	7.04	222	0.846	35.3	2.66	0.1	5
7/5/2004	4:00	30.12	7.05	220	0.85	35.5	2.68	0.1	5
7/5/2004	4:15	30.13	7.05	220	0.851	35.2	2.66	0.1	5
7/5/2004	4:30	30.13	7.05	221	0.849	34.6	2.61	0.1	5
7/5/2004	4:45	30.1	7.05	221	0.885	33.2	2.5	0.1	5
7/5/2004	5:00	30.12	7.05	222	0.858	36.6	2.76	0.1	5
7/5/2004	5:15	30.13	7.05	223	0.856	38	2.87	0.1	5
7/5/2004	5:30	30.12	7.05	220	0.851	38.5	2.9	0.1	5
7/5/2004	5:45	30.1	7.07	220	0.857	40.4	3.05	0.1	5
7/5/2004	6:00	30.06	7.07	222	0.851	41.2	3.11	0.1	5
7/5/2004	6:15	30.02	7.08	220	0.843	42	3.17	0.1	5
7/5/2004	6:30	30.01	7.07	222	0.846	41.6	3.14	0.1	5
7/5/2004	6:45	30	7.07	223	0.837	40.3	3.05	0.1	5
7/5/2004	7:00	29.97	7.07	227	0.855	39.3	2.97	0.11	5
7/5/2004	7:15	29.97	7.06	226	0.828	39.4	2.98	0.11	5
7/5/2004	7:30	29.95	7.06	227	0.837	37.9	2.87	0.11	5
7/5/2004	7:45	29.94	7.06	230	0.84	37.6	2.85	0.11	5
7/5/2004	8:00	29.93	7.06	232	0.845	37.2	2.82	0.11	5
7/5/2004	8:15	29.96	7.06	229	0.841	37.3	2.82	0.11	5
7/5/2004	8:30	29.94	7.05	234	0.828	35.5	2.69	0.11	5
7/5/2004	8:45	29.98	7.06	231	0.842	35.2	2.66	0.11	5
7/5/2004	9:00	30.04	7.06	231	0.823	37.1	2.8	0.11	5
7/5/2004	9:15	30	7.05	244	0.838	35.1	2.65	0.12	5
7/5/2004	9:30	29.99	7.04	259	0.832	35.2	2.66	0.12	5
7/5/2004	9:45	29.98	7.04	269	0.841	35.1	2.65	0.13	5
7/5/2004	10:00	30.07	7.04	274	0.817	40.9	3.09	0.13	5
7/5/2004	10:15	30.18	7.04	281	0.839	38.1	2.87	0.14	5
7/5/2004	10:30	30.21	7.04	299	0.829	37.2	2.8	0.14	5
7/5/2004	10:45	30.26	7.04	313	0.833	36	2.71	0.15	5
7/5/2004	11:00	30.38	7.06	331	0.829	37.6	2.82	0.16	5
7/5/2004	11:15	30.31	7.04	310	0.823	35.5	2.67	0.15	5
7/5/2004	11:30	30.42	7.04	325	0.826	38.4	2.88	0.16	5
7/5/2004	11:45	30.36	7.03	340	0.837	32.7	2.46	0.17	5
7/5/2004	12:00	30.71	7.06	339	0.813	42.7	3.18	0.17	5
7/5/2004	12:15	30.93	7.07	337	0.825	49.8	3.7	0.17	5
7/5/2004	12:30	30.61	7.03	373	0.826	32.9	2.46	0.18	5
7/5/2004	12:45	31.08	7.08	338	0.844	58.5	4.34	0.17	5
7/5/2004	13:00	31.14	7.07	345	0.828	55.8	4.13	0.17	5
7/5/2004	13:15	31.04	7.06	343	0.834	53.2	3.95	0.17	5
7/5/2004	13:30	30.88	7.06	382	0.834	42.1	3.13	0.19	5
7/5/2004	13:45	30.94	7.07	370	0.83	54.5	4.05	0.18	5
7/5/2004	14:00	31	7.07	368	0.827	54.7	4.06	0.18	5
7/5/2004	14:15	31.17	7.05	387	0.841	49.1	3.64	0.19	5
7/5/2004	14:30	30.67	7.04	400	0.823	41.1	3.07	0.2	5
7/5/2004	14:45	31.27	7.09	364	0.832	64.5	4.76	0.18	5

7/5/2004	15:00	30.83	7.07	422	0.838	45.3	3.37	0.21	5
7/5/2004	15:15	31.28	7.1	451	0.828	68.6	5.07	0.23	5
7/5/2004	15:30	31.04	7.08	464	0.85	53.8	3.99	0.23	5
7/5/2004	15:45	31.32	7.11	345	0.828	65.1	4.8	0.17	5
7/5/2004	16:00	31.41	7.11	388	0.83	69.8	5.15	0.19	5
7/5/2004	16:15	31.66	7.13	419	0.84	71.3	5.23	0.21	5
7/5/2004	16:30	31.39	7.13	430	0.812	64.7	4.77	0.22	5
7/5/2004	16:45	31.64	7.12	379	0.841	73.6	5.4	0.19	5
7/5/2004	17:00	31.91	7.17	395	0.838	77.6	5.67	0.2	5
7/5/2004	17:15	32.19	7.19	405	0.846	88.5	6.44	0.2	5
7/5/2004	17:30	31.71	7.15	457	0.833	63.8	4.67	0.23	5
7/5/2004	17:45	31.76	7.17	446	0.799	69.4	5.08	0.22	5
7/5/2004	18:00	31.61	7.14	433	0.84	58.1	4.26	0.22	5
7/5/2004	18:15	31.72	7.14	344	0.841	74.1	5.43	0.17	5
7/5/2004	18:30	32.05	7.14	386	0.85	77.8	5.67	0.19	5
7/5/2004	18:45	32.03	7.15	318	0.841	86.7	6.33	0.16	5
7/5/2004	19:00	32.22	7.15	341	0.83	82.5	5.99	0.17	5
7/5/2004	19:15	31.63	7.08	342	0.85	61.3	4.5	0.17	5
7/5/2004	19:30	31.95	7.12	323	0.853	79.1	5.78	0.16	5
7/5/2004	19:45	31.94	7.12	304	0.855	78.9	5.76	0.15	5
7/5/2004	20:00	31.81	7.12	296	0.867	72.8	5.33	0.14	5
7/5/2004	20:15	32.13	7.13	310	0.85	81.2	5.91	0.15	5
7/5/2004	20:30	32.06	7.12	302	0.86	75.3	5.49	0.15	5
7/5/2004	20:45	31.45	7.05	308	0.858	54.1	3.99	0.15	5
7/5/2004	21:00	31.79	7.05	328	0.865	52.5	3.85	0.16	5
7/5/2004	21:15	31.27	7.03	303	0.86	46.7	3.45	0.15	5
7/5/2004	21:30	31.46	7.06	287	0.868	58.1	4.28	0.14	5
7/5/2004	21:45	31.52	7.05	290	0.865	56.6	4.16	0.14	5
7/5/2004	22:00	32.13	7.14	285	0.861	79.7	5.8	0.14	5
7/5/2004	22:15	31.94	7.06	307	0.88	57	4.16	0.15	5
7/5/2004	22:30	31.79	7.08	290	0.857	57.3	4.2	0.14	5
7/5/2004	22:45	31.81	7.1	290	0.86	65.5	4.79	0.14	5
7/5/2004	23:00	31.79	7.09	298	0.863	58.5	4.28	0.14	5
7/5/2004	23:15	31.77	7.16	280	0.878	78	5.71	0.13	5
7/5/2004	23:30	31.63	7.11	287	0.862	62.1	4.56	0.14	5
7/5/2004	23:45	31.66	7.15	285	0.864	72.9	5.35	0.14	5
7/6/2004	0:00	31.53	7.12	281	0.867	63.6	4.68	0.14	5
7/6/2004	0:15	31.22	7.06	284	0.872	47.4	3.5	0.14	5
7/6/2004	0:30	31.4	7.11	281	0.871	66.5	4.9	0.14	5
7/6/2004	0:45	31.3	7.12	280	0.862	61.8	4.56	0.13	5
7/6/2004	1:00	31.25	7.09	285	0.877	57.8	4.27	0.14	5
7/6/2004	1:15	31.15	7.11	277	0.867	61.3	4.54	0.13	5
7/6/2004	1:30	31.12	7.09	282	0.871	50.8	3.77	0.14	5
7/6/2004	1:45	31.05	7.09	278	0.873	50.9	3.78	0.13	5
7/6/2004	2:00	31	7.08	278	0.873	47.4	3.52	0.13	5

7/6/2004	2:15	30.96	7.06	279	0.873	43.6	3.24	0.13	5
7/6/2004	2:30	30.88	7.06	276	0.869	40.9	3.04	0.13	5
7/6/2004	2:45	30.86	7.05	276	0.926	41.5	3.09	0.13	5
7/6/2004	3:00	30.83	7.05	273	0.87	39.7	2.96	0.13	5
7/6/2004	3:15	30.81	7.05	274	0.855	36.9	2.75	0.13	5
7/6/2004	3:30	30.82	7.05	274	0.868	36.3	2.7	0.13	5
7/6/2004	3:45	30.79	7.05	272	0.859	36	2.68	0.13	5
7/6/2004	4:00	30.79	7.05	274	0.842	37.1	2.76	0.13	5
7/6/2004	4:15	30.78	7.05	274	0.866	36.2	2.7	0.13	5
7/6/2004	4:30	30.79	7.05	276	0.853	36.2	2.7	0.13	5
7/6/2004	4:45	30.8	7.06	277	0.855	35.6	2.65	0.13	5
7/6/2004	5:00	30.81	7.06	275	0.853	36.6	2.73	0.13	5
7/6/2004	5:15	30.81	7.06	278	0.848	36.3	2.7	0.13	5
7/6/2004	5:30	30.82	7.06	278	0.855	36.1	2.69	0.13	5
7/6/2004	5:45	30.83	7.07	275	0.854	37	2.76	0.13	5
7/6/2004	6:00	30.83	7.07	275	0.85	37.3	2.78	0.13	5
7/6/2004	6:15	30.83	7.07	274	0.85	38.4	2.86	0.13	5
7/6/2004	6:30	30.84	7.07	275	0.849	37.6	2.8	0.13	5
7/6/2004	6:45	30.85	7.07	275	0.852	37.6	2.8	0.13	5
7/6/2004	7:00	30.84	7.07	275	0.849	37.5	2.79	0.13	5
7/6/2004	7:15	30.85	7.07	276	0.846	35.7	2.66	0.13	5
7/6/2004	7:30	30.87	7.07	274	0.85	35.8	2.66	0.13	5
7/6/2004	7:45	30.9	7.07	275	0.845	36.6	2.72	0.13	5
7/6/2004	8:00	30.92	7.07	274	0.844	36.4	2.71	0.13	5
7/6/2004	8:15	30.93	7.07	275	0.839	35.7	2.65	0.13	5
7/6/2004	8:30	30.96	7.07	275	0.841	36.3	2.7	0.13	5
7/6/2004	8:45	30.95	7.07	275	0.84	34.9	2.59	0.13	5
7/6/2004	9:00	30.96	7.07	275	0.84	34.6	2.57	0.13	5
7/6/2004	9:15	30.97	7.07	277	0.84	34.6	2.57	0.13	5
7/6/2004	9:30	30.98	7.07	281	0.845	33.8	2.51	0.14	5
7/6/2004	9:45	31.01	7.07	282	0.844	34.4	2.55	0.14	5
7/6/2004	10:00	31.01	7.07	280	0.843	34.4	2.55	0.13	5
7/6/2004	10:15	31.04	7.07	279	0.846	35	2.6	0.13	5
7/6/2004	10:30	31.12	7.07	274	0.882	37.3	2.76	0.13	5
7/6/2004	10:45	31.14	7.07	273	0.84	37.6	2.78	0.13	5
7/6/2004	11:00	31.14	7.07	274	0.84	37.9	2.81	0.13	5

Appendix F5 – BOD Calculations

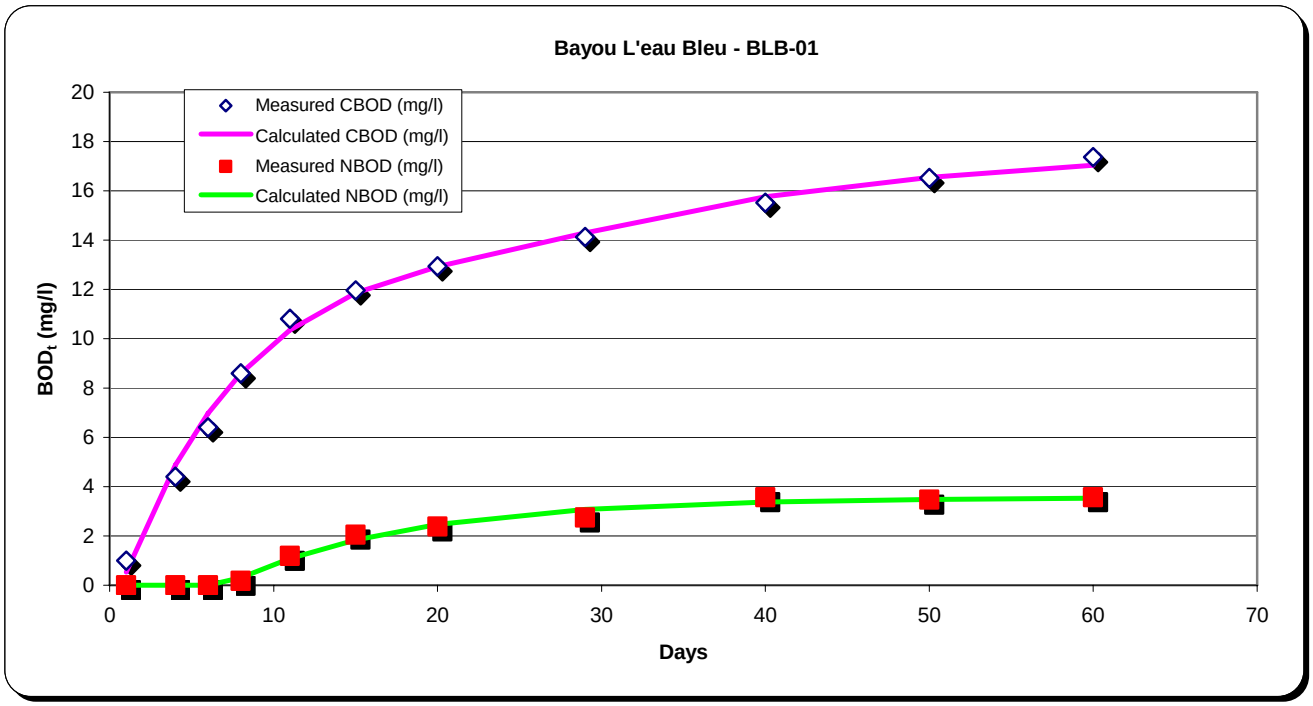
Bayou L'Eau Bleu 120303
Lab BOD Calculations Summary

	TOC	pH	60 day TOC	60 day TKN	Chl a	UCBOD	Kd	UCBOD1	Kd1	UCBOD2	Kd2	NBOD	Kn
SITE NO.	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(ug/l)	(mg/l)	(1/d)	(mg/l)	(1/d)	(mg/l)	(1/d)	(mg/l)	(1/d)
CC-01	13.00	7.80	12.40	0.56		16.105	0.088	14.24	0.116	3.60	0.033	3.03	0.087
CC-02	12.50	7.80	12.30	0.93	108.00	18.985	0.096	16.89	0.129	3.66	0.039	4.13	0.087
FA-01	18.60	7.9	12.8	0.86	--	11.60	0.091	10.23	0.118	2.67	0.034	6.87	0.208
TFC-01	17.10	7.80	12.40	2.02	--	9.90	0.067	7.43	0.170	3.67	0.037	4.64	0.113
TFC-02	--	--	--	--	--								
BLB-01	12.10	7.60	11.80	0.57	92.20	16.53	0.086	14.10	0.129	3.95	0.039	3.56	0.091
BLB-04	13.00	7.60	11.80	0.78	--	20.151	0.092	17.51	0.132	4.72	0.038	4.78	0.170
BLB-05	12.30	7.90	12.40	0.81	87.80	16.365	0.090	14.08	0.130	4.10	0.038	3.94	0.115
BLB-07	13.90	7.70	13.20	0.71	--	12.088	0.078	10.60	0.104	2.68	0.033	2.92	0.096
ICWW-01	9.80	7.70	8.30	0.48	--	4.163	0.224	4.41	0.202	0.00	0.005	2.54	0.055
Avg. BLB						16.28	0.086	14.07	0.123	3.86	0.037	3.80	0.118
Avg. CC						17.55	0.092	15.56	0.122	3.63	0.036	3.58	0.087

Minimum	0.078	0.1035	0.0326	0.0909
Maximum	0.092	0.1320	0.0393	0.1700

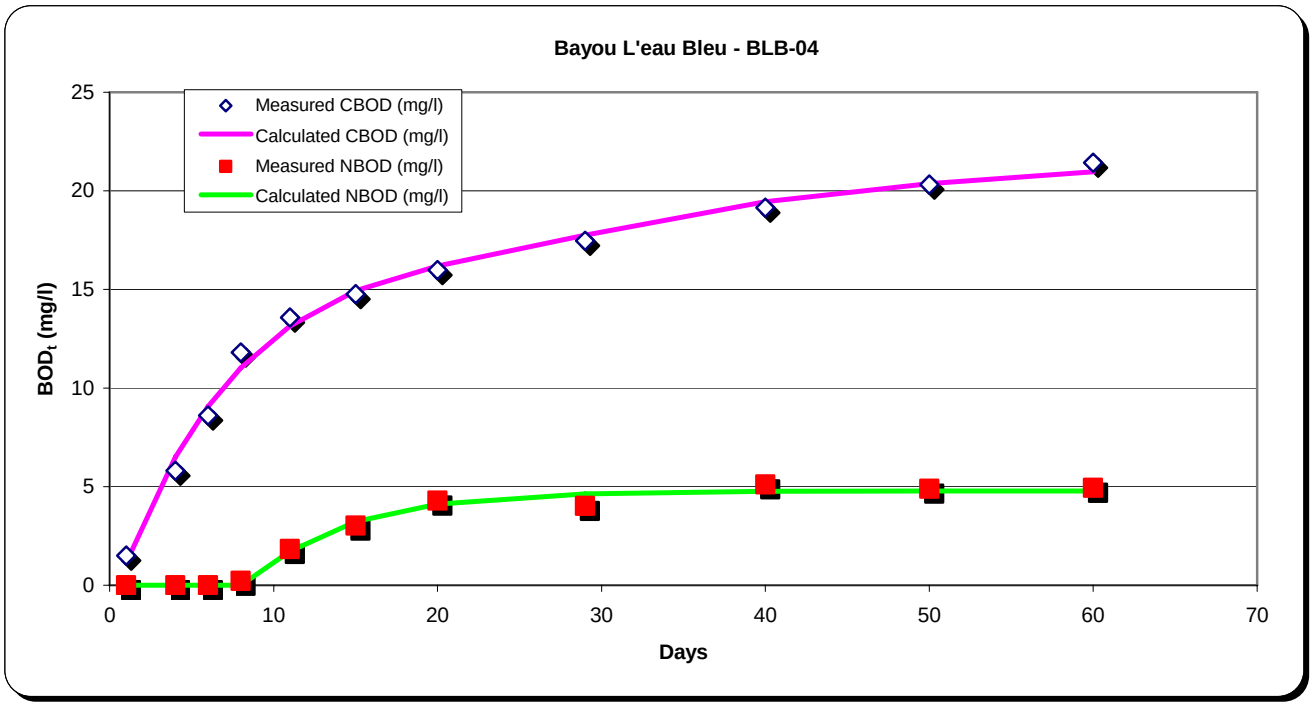
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	3.5563488	14.103084	3.9549427
k rate (1/day)	0.0909375	0.12875	0.03925895
Lag time (days)	7	0.7048612	25.1671505

Breakpoint: 15th day



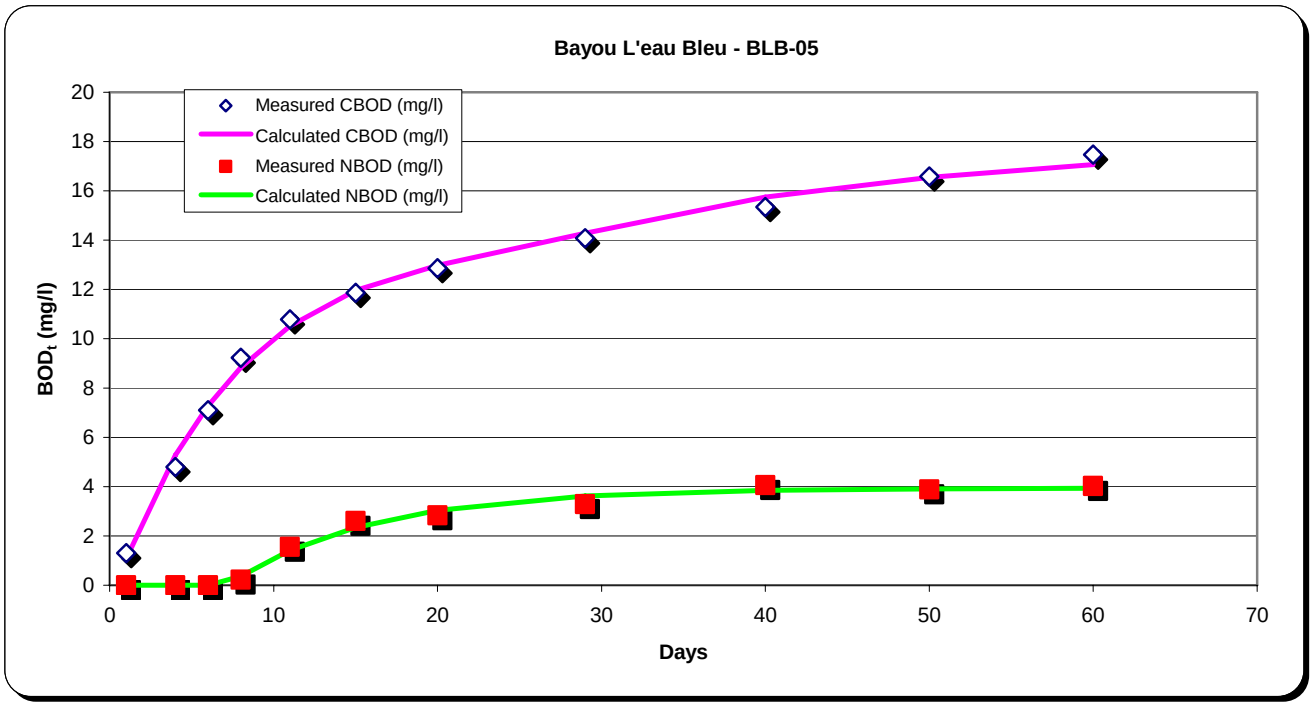
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	4.7813625	17.514803	4.72185183
k rate (1/day)	0.17	0.1319965	0.03791845
Lag time (days)	8.3611107	0.4820602	25.1671505

Breakpoint: 20th day



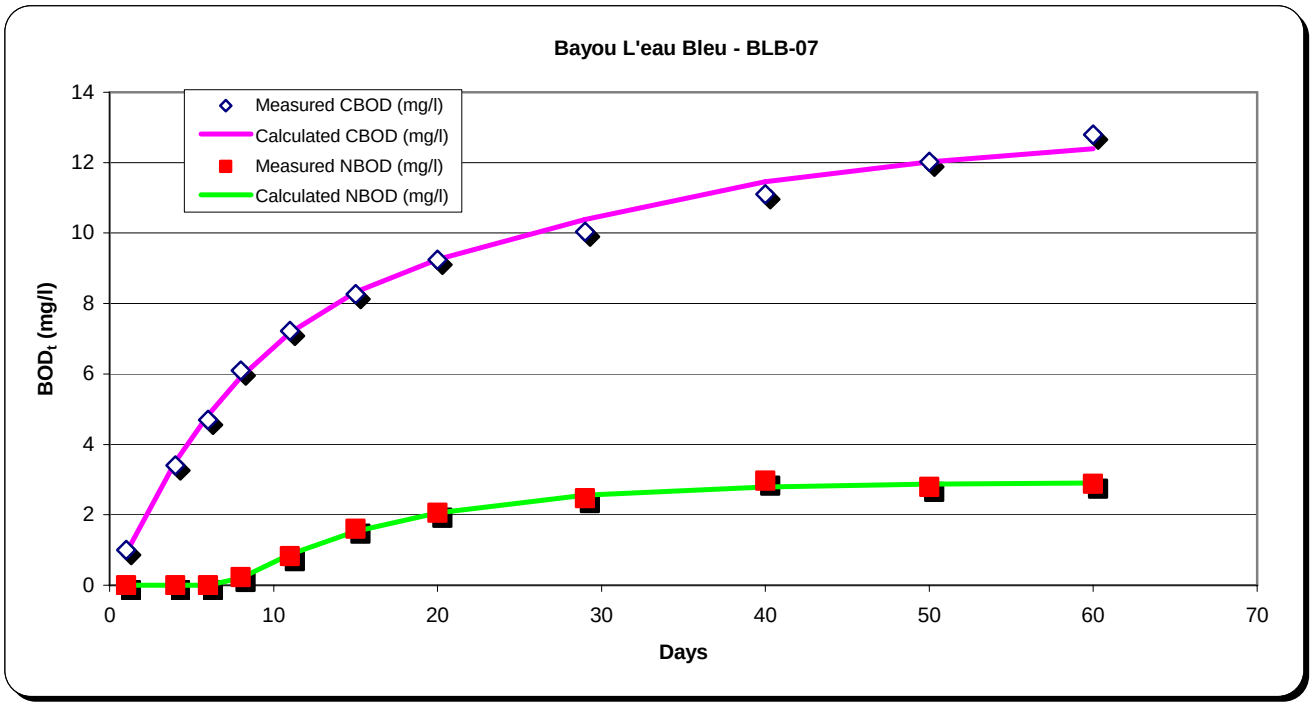
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	3.9424713	14.079239	4.09676456
k rate (1/day)	0.115	0.1295139	0.03757202
Lag time (days)	7.145833	0.3767361	25.1671505

Breakpoint: 20th day



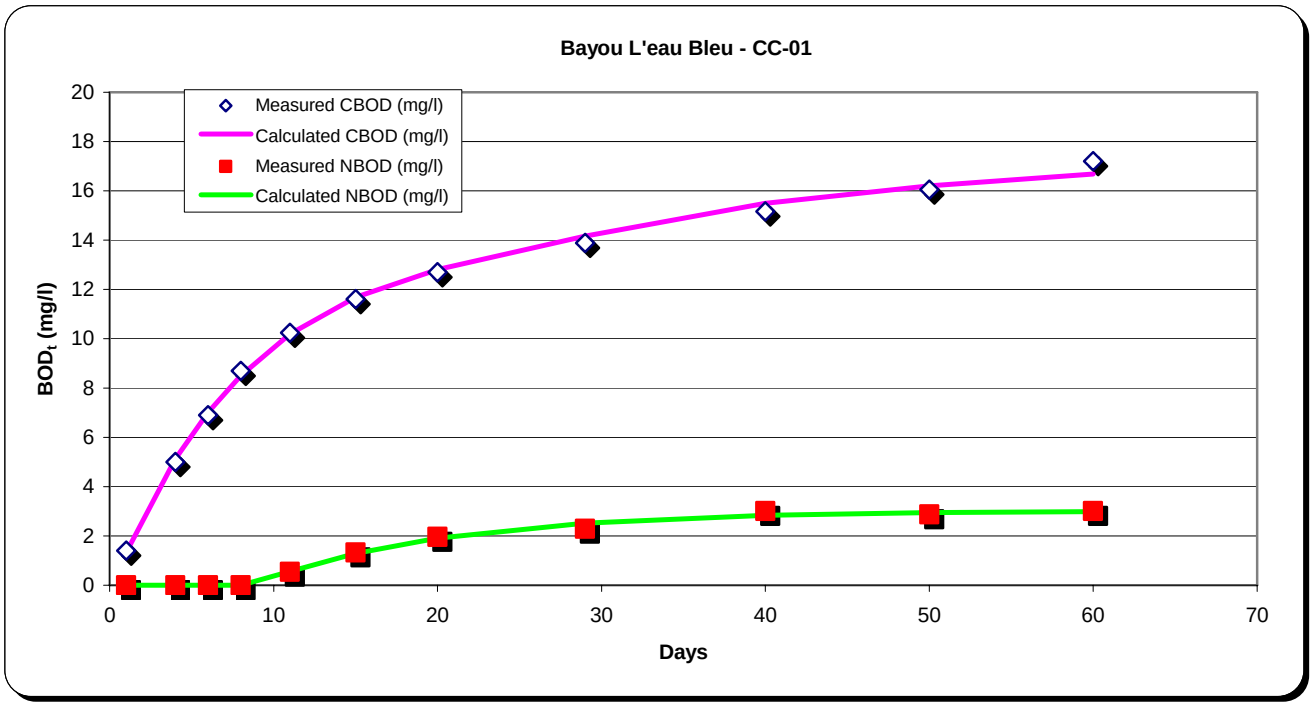
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.9224198	10.601284	2.67608833
k rate (1/day)	0.0955208	0.1035417	0.03260675
Lag time (days)	7.2430553	0.1215278	25.1671505

Breakpoint: 29th day



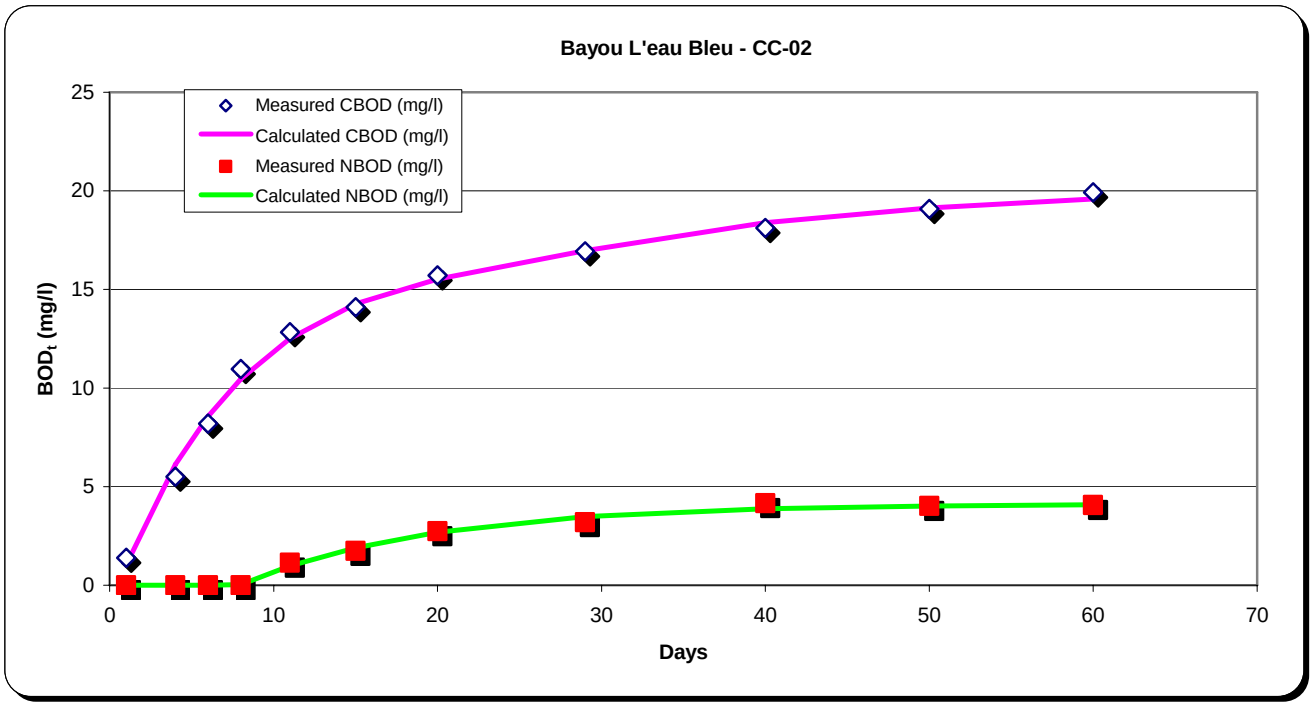
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	3.0266728	14.237267	3.60216618
k rate (1/day)	0.0875	0.1157639	0.03302052
Lag time (days)	8.6527777	0.1458333	25.1671505

Breakpoint: 15th day



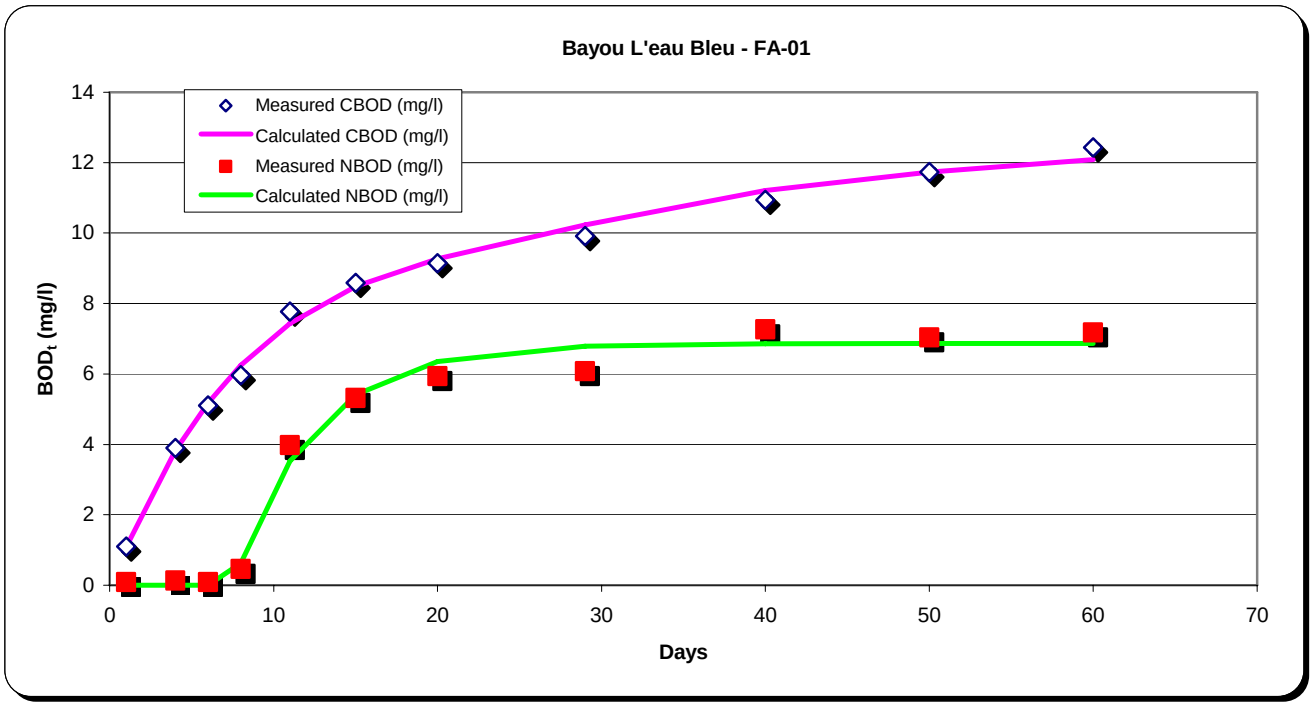
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	4.1284981	16.889135	3.66228342
k rate (1/day)	0.0875	0.12875	0.03874969
Lag time (days)	7.9236112	0.5023148	25.1671505

Breakpoint: 15th day



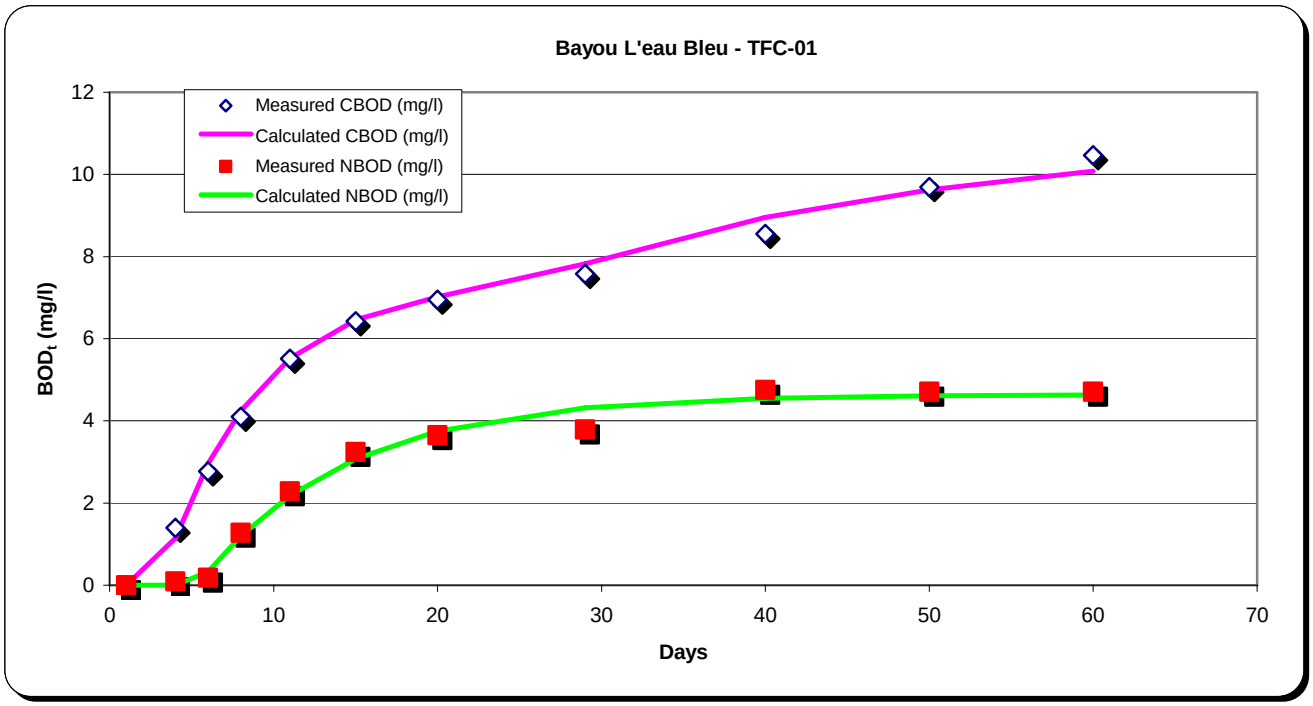
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	6.8676414	10.232917	2.66554189
k rate (1/day)	0.2078125	0.1184375	0.03435732
Lag time (days)	7.5347219	0.0486111	25.1671505

Breakpoint: 29th day



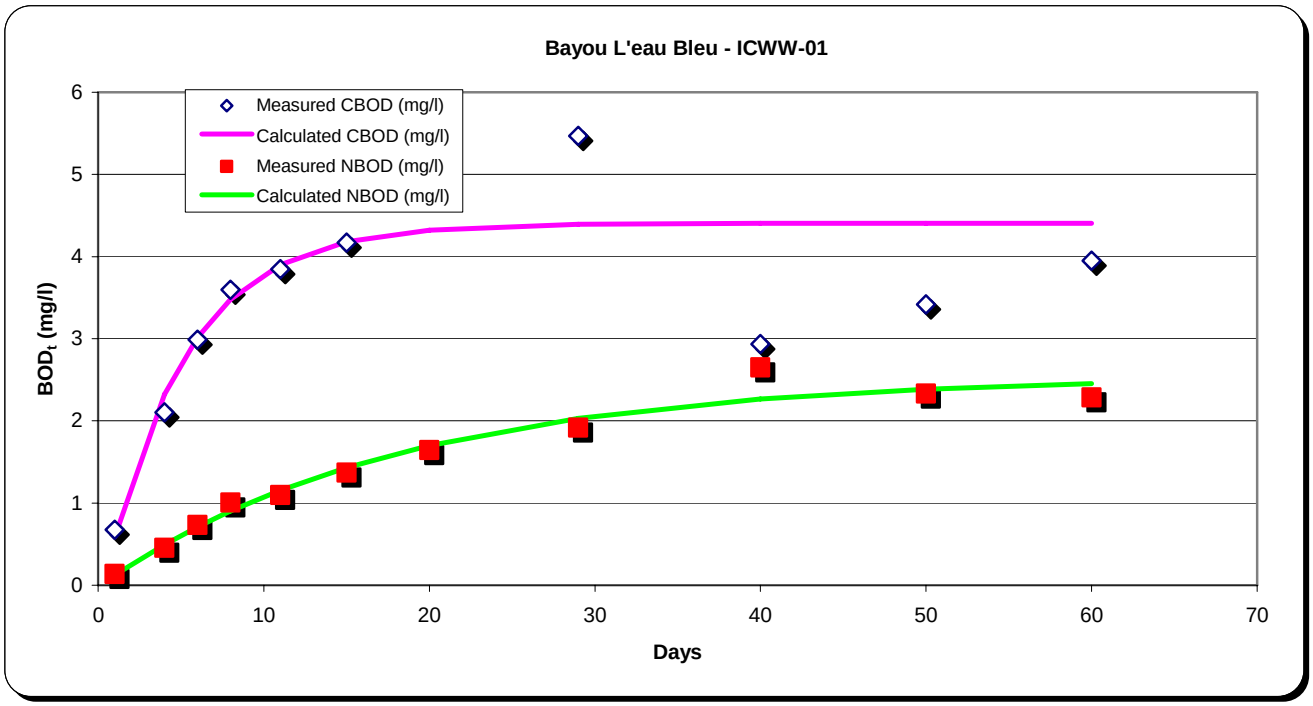
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	4.6417236	7.4318933	3.66589332
k rate (1/day)	0.1127083	0.17	0.03668082
Lag time (days)	5.3472223	3.0138888	25.1671505

Breakpoint: 29th day



	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.544178	4.405241	0
k rate (1/day)	0.0554167	0.2020833	0.005
Lag time (days)	0.0972222	0.2916667	0

Breakpoint: 40th day



Appendix F6 – Dispersion Calculations

Bayou L'Eau Bleu Cross Section Summary

SITE	WIDTH (feet)	WIDTH (meters)	DEPTH (feet)	DEPTH (meters)
BLB DYE DUMP XS	131.000	39.929	3.794	1.156
BLB RUN 1 XS 1	130.000	39.624	3.480	1.061
BLB RUN 1 XS 2	163.000	49.682	4.241	1.293
BLB RUN 1 XS 3	156.000	47.549	4.101	1.250
BLB RUN 2 XS 1	176.980	53.944	5.460	1.664
BLB RUN 2 XS 2	171.000	52.121	5.797	1.767
BLB RUN 2 XS 3	140.000	42.672	4.504	1.373
Dye Run 1	145.000	44.196	3.904	1.190
Dye Run 2	152.569	46.503	4.482	1.366

Bayou L'Eau Bleu Subsegment 120303 Dispersion Summary

Run Number	Dispersion Coefficeint (Kd)	Elapsed Time (hrs)
Dye Run 1	1.1	5.677
Dye Run 2	1.5	22.987

For the purposes of this TMDL the Dispersion coefficient for Dye Run 2 will be used.
This is because the data was gathered over the longest time period allowing for a better dispersion of the dye into the water body.

Bayou L'Eau Bleu Dye Arc Table Calculations Page 1 of 2

Y	X	RUN	Value	RKM	Kilometers Distance from Dye Dump	Meters Distance from Dye Dump	TEMP	Date + Time	Run - Dump	PROJECTION	ZONE
		dump		7.29				6/30/04 10:58		NAD 83 CONUS	Zone 15 North
3275365	741877	R1 BG	0.1	6.98	0.31	311.11	30	6/30/04 16:26	0.228067	NAD 83 CONUS	Zone 15 North
3275322	741914	R1 01	1.2	6.93	0.37	367.87	30.1	6/30/04 16:28	0.229028	NAD 83 CONUS	Zone 15 North
3275229	741999	R1 02	1.3	6.80	0.50	495.02	30.4	6/30/04 16:30	0.230336	NAD 83 CONUS	Zone 15 North
3275181	742058	R1 03	1.8	6.72	0.57	571.68	30.4	6/30/04 16:31	0.231354	NAD 83 CONUS	Zone 15 North
3275120	742124	R1 04	3.3	6.63	0.66	661.45	30.4	6/30/04 16:33	0.232488	NAD 83 CONUS	Zone 15 North
3275077	742176	R1 05	2.7	6.57	0.73	729.31	30.3	6/30/04 16:35	0.234086	NAD 83 CONUS	Zone 15 North
3275011	742265	R1 06	2.7	6.45	0.84	840.19	30.2	6/30/04 16:37	0.235278	NAD 83 CONUS	Zone 15 North
3274961	742331	R1 07	5.6	6.37	0.92	922.90	30.3	6/30/04 16:38	0.236134	NAD 83 CONUS	Zone 15 North
3274873	742433	R1 08	8.8	6.24	1.06	1057.14	30.3	6/30/04 16:40	0.237326	NAD 83 CONUS	Zone 15 North
3274805	742493	R1 09	17.5	6.15	1.15	1146.24	30.6	6/30/04 16:41	0.238414	NAD 83 CONUS	Zone 15 North
3274698	742543	R1 10	18.7	6.03	1.26	1261.60	30.6	6/30/04 16:43	0.239537	NAD 83 CONUS	Zone 15 North
3274620	742569	R1 11	13.8	5.95	1.34	1343.79	30.8	6/30/04 16:44	0.240475	NAD 83 CONUS	Zone 15 North
3274553	742590	R1 12	9.7	5.88	1.41	1413.94	30.8	6/30/04 16:46	0.241412	NAD 83 CONUS	Zone 15 North
3274481	742607	R1 13	7.5	5.81	1.49	1488.71	30.7	6/30/04 16:47	0.242431	NAD 83 CONUS	Zone 15 North
3274442	742620	R1 14	3.2	5.76	1.53	1530.70	31.1	6/30/04 16:49	0.243727	NAD 83 CONUS	Zone 15 North
3274429	742655	R1 15	0.0	5.72	1.57	1572.08	31.1	6/30/04 16:50	0.244606	NAD 83 CONUS	Zone 15 North
								Dye Run 1			
								Average Time	0.236544		
								Average Time in Hours	5.677049		
								Average Time in Seconds	**20437.375000**		

Bayou L'Eau Bleu Dye Arc Table Calculations Page 2 of 2

Y	X	RUN	Value	RKM	Kilometers Distance from Dye Dump	Meters Distance from Dye Dump	TEMP	Date + Time	Run - Dump	PROJECTION	ZONE
3274314	744215	R2 BG	0.0	4.1	3.24	3235.017	29.4	7/1/04 9:40	0.946123	NAD 83 CONUS	Zone 15 North
3274264	744379	R2 01	0.2	3.9	3.41	3407.828	29.4	7/1/04 9:43	0.947674	NAD 83 CONUS	Zone 15 North
3274142	744560	R2 02	0.5	3.7	3.64	3640.412	29.6	7/1/04 9:46	0.949780	NAD 83 CONUS	Zone 15 North
3273908	744659	R2 03	1.0	3.4	3.90	3898.389	29.8	7/1/04 9:48	0.951586	NAD 83 CONUS	Zone 15 North
3273826	744748	R2 04	2.4	3.3	4.02	4020.085	29.9	7/1/04 9:50	0.952812	NAD 83 CONUS	Zone 15 North
3273757	744901	R2 05	2.7	3.1	4.19	4190.805	29.6	7/1/04 9:52	0.954225	NAD 83 CONUS	Zone 15 North
3273663	745055	R2 06	3.4	2.9	4.37	4371.704	29.9	7/1/04 9:54	0.955706	NAD 83 CONUS	Zone 15 North
3273533	745231	R2 07	3.3	2.7	4.63	4627.577	30	7/1/04 9:57	0.957627	NAD 83 CONUS	Zone 15 North
3273576	745417	R2 08	2.9	2.5	4.82	4821.734	29.7	7/1/04 9:59	0.959225	NAD 83 CONUS	Zone 15 North
3273502	745616	R2 09	1.7	2.3	5.04	5036.478	29.8	7/1/04 10:02	0.961157	NAD 83 CONUS	Zone 15 North
3273462	745765	R2 10	1.5	2.1	5.19	5189.617	29.8	7/1/04 10:05	0.962928	NAD 83 CONUS	Zone 15 North
3273405	745910	R2 11	1.0	1.9	5.35	5345.157	29.8	7/1/04 10:07	0.964317	NAD 83 CONUS	Zone 15 North
3273352	746046	R2 12	0.6	1.8	5.49	5491.007	29.8	7/1/04 10:09	0.965822	NAD 83 CONUS	Zone 15 North
3273261	746300	R2 13	0.2	1.5	5.76	5761.361	29.8	7/1/04 10:12	0.967928	NAD 83 CONUS	Zone 15 North
3273197	746540	R2 14	0.0	1.3	6.01	6010.413	29.8	7/1/04 10:14	0.969803	NAD 83 CONUS	Zone 15 North
								Dye Run 2			
								Average Time	0.957781		
								Average Time in Hours	22.986741		
								Average Time in Seconds	**82752.266667**		

TITLE: DYE CONCENTRATIONS VS. DISTANCE FOR BAYOU L'EAU BLEU
ASSUMES 1-D ANALYSIS (LATERALLY AND VERTICALLY MIXED) OF SLUG INJECTION
COMPARES THEORETICAL WITH FIELD DATA
PHM 9-11-02 (revised 5-28-03, 10-17-06 RKD)
DATA INPUT CELLS

AVG FLOW =	11.3	cfs (calculated)
MEAN VELOCITY =	0.02	ft/sec (composite of adjective and tidal velocity - vary to adjust width of predicted curve)
AVG XS AREA =	566	ft^2 (calculated)
AVG DEPTH =	3.9	ft (average of measured XS's)
AVG WIDTH =	145	ft (average of measured XS's)
ELAPSED TIME =	5.68	hr (approx elapsed time from injection to dye run)
INJECT. MASS =	8.84	lbs stock solution (20% dye)
ADV VELOCITY =	0.1900	ft/sec (adjust to get predicted and observed data lined up horizontally)

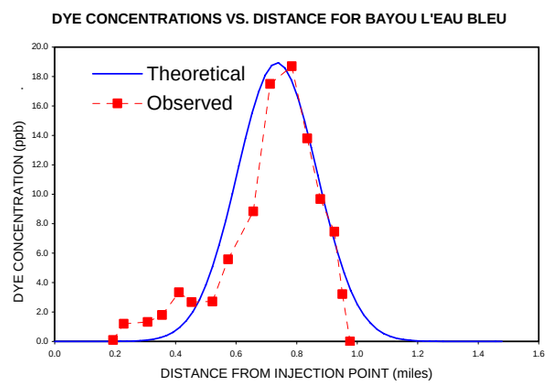
PREDICTED MAXIMUM DYE CONCENTRATION =	28.69	ppb	(1-D advective dispersion equation)
ADJUSTMENT FACTOR FOR DYE LOSS =	0.66		(chlorine, adsorption, photodegradation)
ADJUSTED MAXIMUM DYE CONCENTRATION =	18.93	ppb	(after applying dye loss factor)

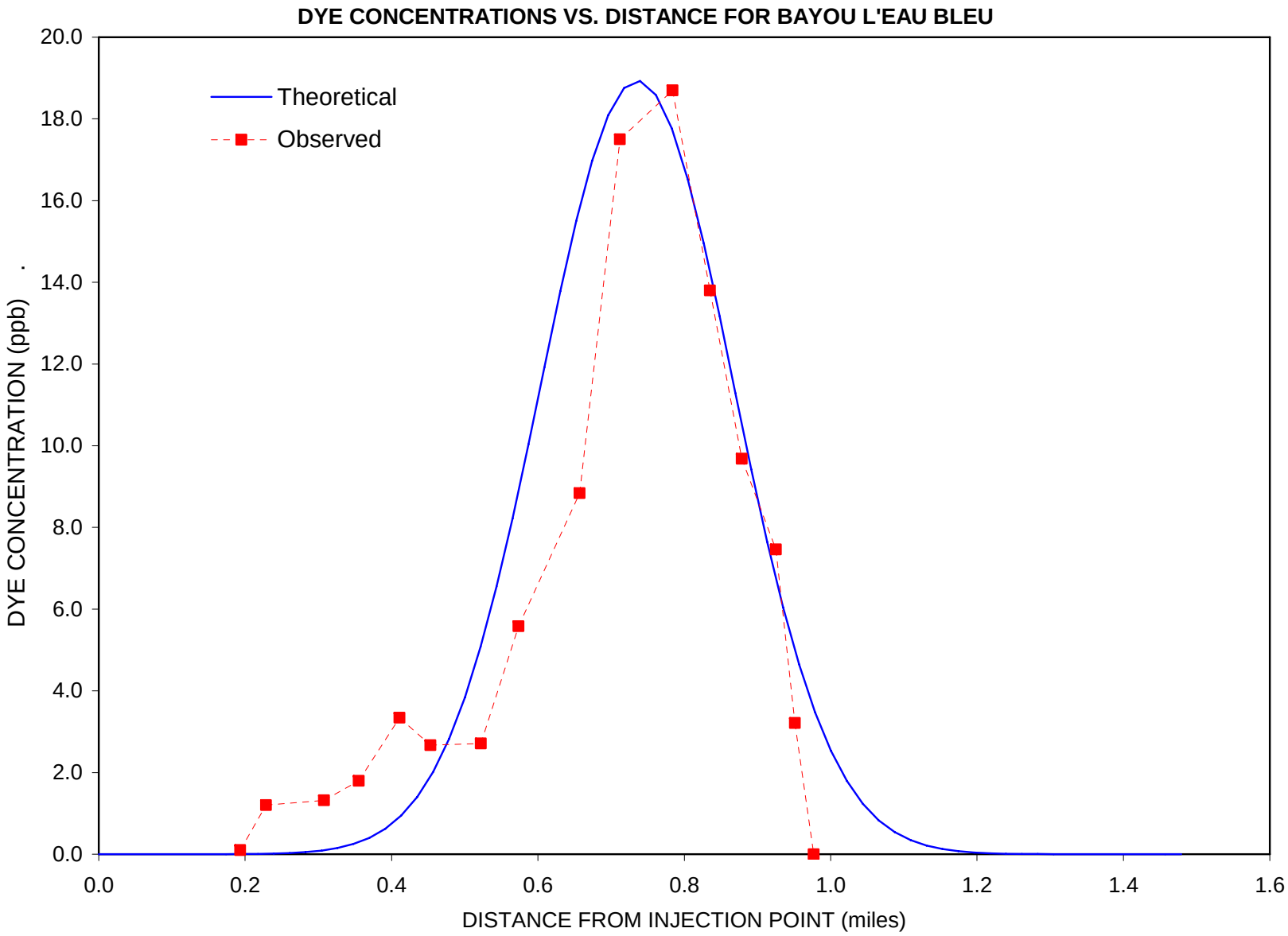
LONGITUDINAL DISPERSION COEFFICIENT =	11.9	ft^2/sec	(eqn. 5.19 from Fischer et al, 1979)
ADJUSTMENT FACTOR FOR DISPERSION =	1		("calibration" factor - 1.00 yields Fischer theoretical dispersion)
ADJUSTED LONGITUDINAL DISPERS. COEFF. =	11.9	ft^2/sec	(after applying adjustment factor)
=	1.10	m^2/sec	(converted to metric)

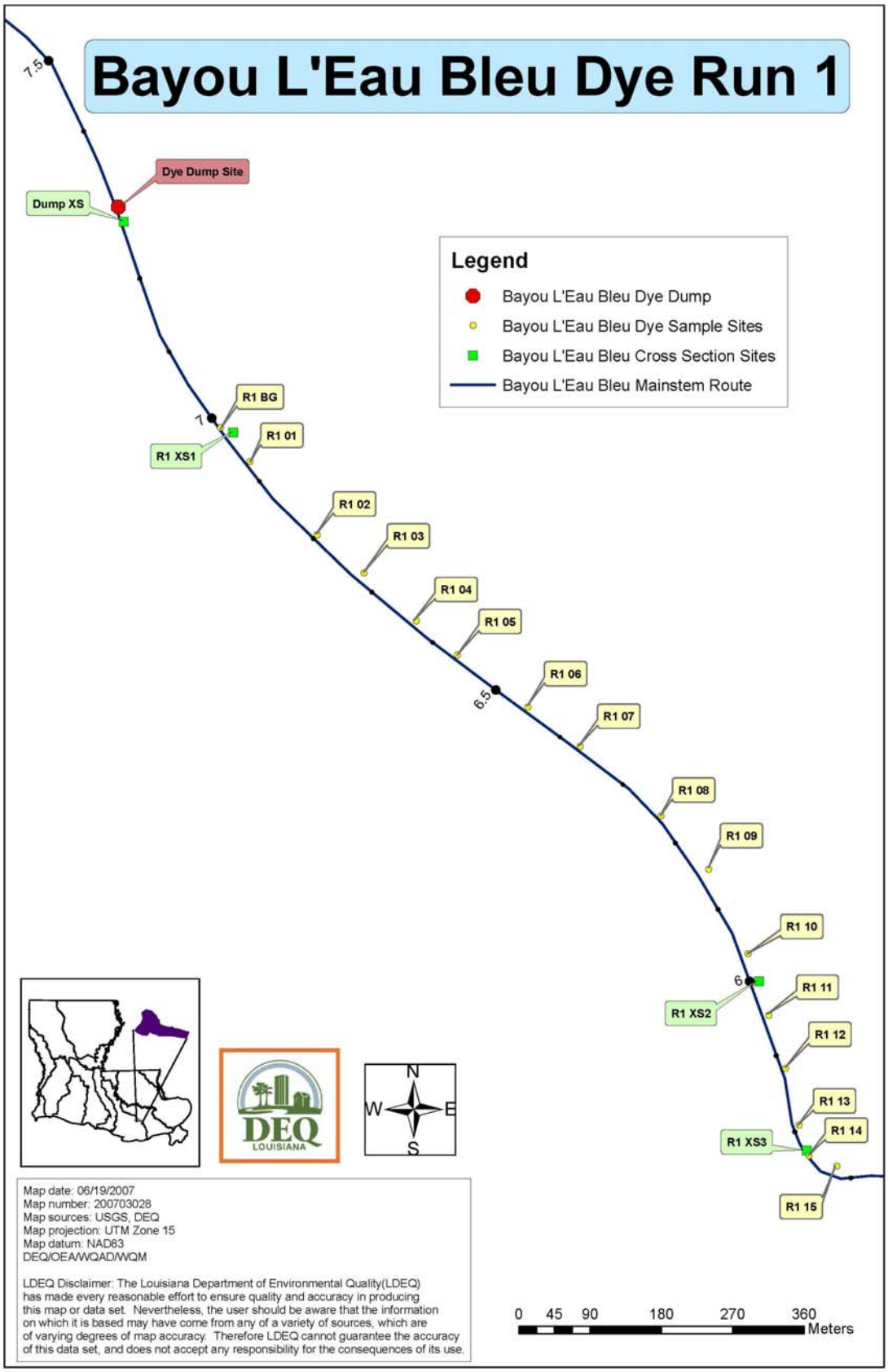
START THEORETICAL CURVE (meters)	0
INCREMENT THEORETICAL CURVE (meters)	35

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	PREDIC. CONC. (ppb)
0	0.00	0.0000
35	0.02	0.0000
70	0.04	0.0000
105	0.07	0.0000
140	0.09	0.0001
175	0.11	0.0002
210	0.13	0.0005
245	0.15	0.0011
280	0.17	0.0022
315	0.20	0.0043
350	0.22	0.0084
385	0.24	0.0158
420	0.26	0.0290
455	0.28	0.0519
490	0.30	0.0902
525	0.33	0.1525
560	0.35	0.2511
595	0.37	0.4022
630	0.39	0.6270
665	0.41	0.9512
700	0.43	1.4045
735	0.46	2.0181
770	0.48	2.8220
805	0.50	3.8404
840	0.52	5.0860
875	0.54	6.5551
910	0.57	8.2218
945	0.59	10.0359
980	0.61	11.9216
1015	0.63	13.7819
1050	0.65	15.5051
1085	0.67	16.9760
1120	0.70	18.0879
1155	0.72	18.7559
1190	0.74	18.9269
1225	0.76	18.5872
1260	0.78	17.7641
1295	0.80	16.5221
1330	0.83	14.9548
1365	0.85	13.1732
1400	0.87	11.2926
1435	0.89	9.4209
1470	0.91	7.6486
1505	0.94	6.0432
1540	0.96	4.6467
1575	0.98	3.4771
1610	1.00	2.5321
1645	1.02	1.7945
1680	1.04	1.2376
1715	1.07	0.8307
1750	1.09	0.5426
1785	1.11	0.3449
1820	1.13	0.2134
1855	1.15	0.1285
1890	1.17	0.0753
1925	1.20	0.0429
1960	1.22	0.0238
1995	1.24	0.0129
2030	1.26	0.0068
2065	1.28	0.0035
2100	1.30	0.0017
2135	1.33	0.0008
2170	1.35	0.0004
2205	1.37	0.0002
2240	1.39	0.0001
2275	1.41	0.0000
2310	1.44	0.0000
2345	1.46	0.0000
2380	1.48	0.0000

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	OBSERVED CONC. (ppb)
311.11	0.19	0.10
367.87	0.23	1.20
495.02	0.31	1.32
571.68	0.36	1.80
661.45	0.41	3.34
729.31	0.45	2.67
840.19	0.52	2.71
922.90	0.57	5.58
1,057.14	0.66	8.84
1,146.24	0.71	17.50
1,261.60	0.78	18.70
1,343.79	0.83	13.80
1,413.94	0.88	9.68
1,488.71	0.93	7.46
1,530.70	0.95	3.21
1,572.08	0.98	0.00
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	




DYE CONCENTRATIONS VS. DISTANCE FOR BAYOU L'EAU BLEU
Theoretical
Observed
DYE CONCENTRATION (ppb)
DISTANCE FROM INJECTION POINT (miles)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6


Bayou L'Eau Bleu Dye Run 1
7.5
Dye Dump Site
Dump XS
Legend
Bayou L'Eau Bleu Dye Dump
Bayou L'Eau Bleu Dye Sample Sites
Bayou L'Eau Bleu Cross Section Sites
Bayou L'Eau Bleu Mainstem Route
R1 BG
7
R1 01
R1 XS1
R1 02
R1 03
R1 04
R1 05
R1 06
6.5
R1 07
R1 08
R1 09
R1 10
6
R1 11
R1 XS2
R1 12
R1 13
R1 14
R1 XS3
R1 15
N
W
E
S
DEQ
LOUISIANA
Map date: 06/19/2007
Map number: 200703028
Map sources: USGS, DEQ
Map projection: UTM Zone 15
Map datum: NAD83
DEQ/OEA/WQAD/WQM
LDEQ Disclaimer: The Louisiana Department of Environmental Quality(LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.
0 45 90 180 270 360
Meters

TITLE: DYE CONCENTRATIONS VS. DISTANCE FOR BAYOU L'EAU BLEU
ASSUMES 1-D ANALYSIS (LATERALLY AND VERTICALLY MIXED) OF SLUG INJECTION
COMPARES THEORETICAL WITH FIELD DATA
PHM 9-11-02 (revised 5-28-03, 10-17-06 RKD)
DATA INPUT CELLS

AVG FLOW =	19.2	cfs (calculated)
MEAN VELOCITY =	0.028	ft/sec (composite of adjective and tidal velocity - vary to adjust width of predicted curve)
AVG XS AREA =	685	ft^2 (calculated)
AVG DEPTH =	4.5	ft (average of measured XS's)
AVG WIDTH =	153	ft (average of measured XS's)
ELAPSED TIME =	22.99	hr (approx elapsed time from injection to dye run)
INJECT. MASS =	8.84	lbs stock solution (20% dye)
ADV VELOCITY =	0.1800	ft/sec (adjust to get predicted and observed data lined up horizontally)
ADV FLOW =	123	ft^3/sec (calculated)

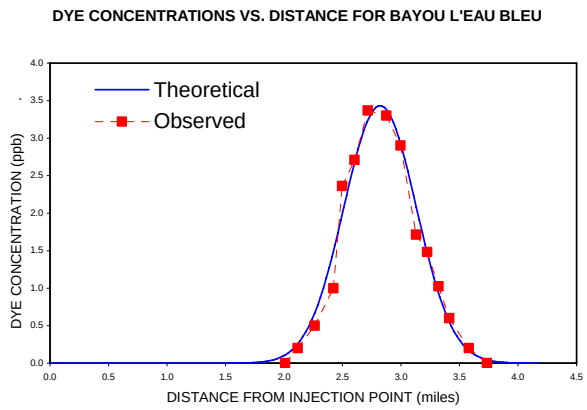
PREDICTED MAXIMUM DYE CONCENTRATION =	10.10	ppb	(1-D advective dispersion equation)
ADJUSTMENT FACTOR FOR DYE LOSS =	0.34		(chlorine, adsorption, photodegradation)
ADJUSTED MAXIMUM DYE CONCENTRATION =	3.43	ppb	(after applying dye loss factor)

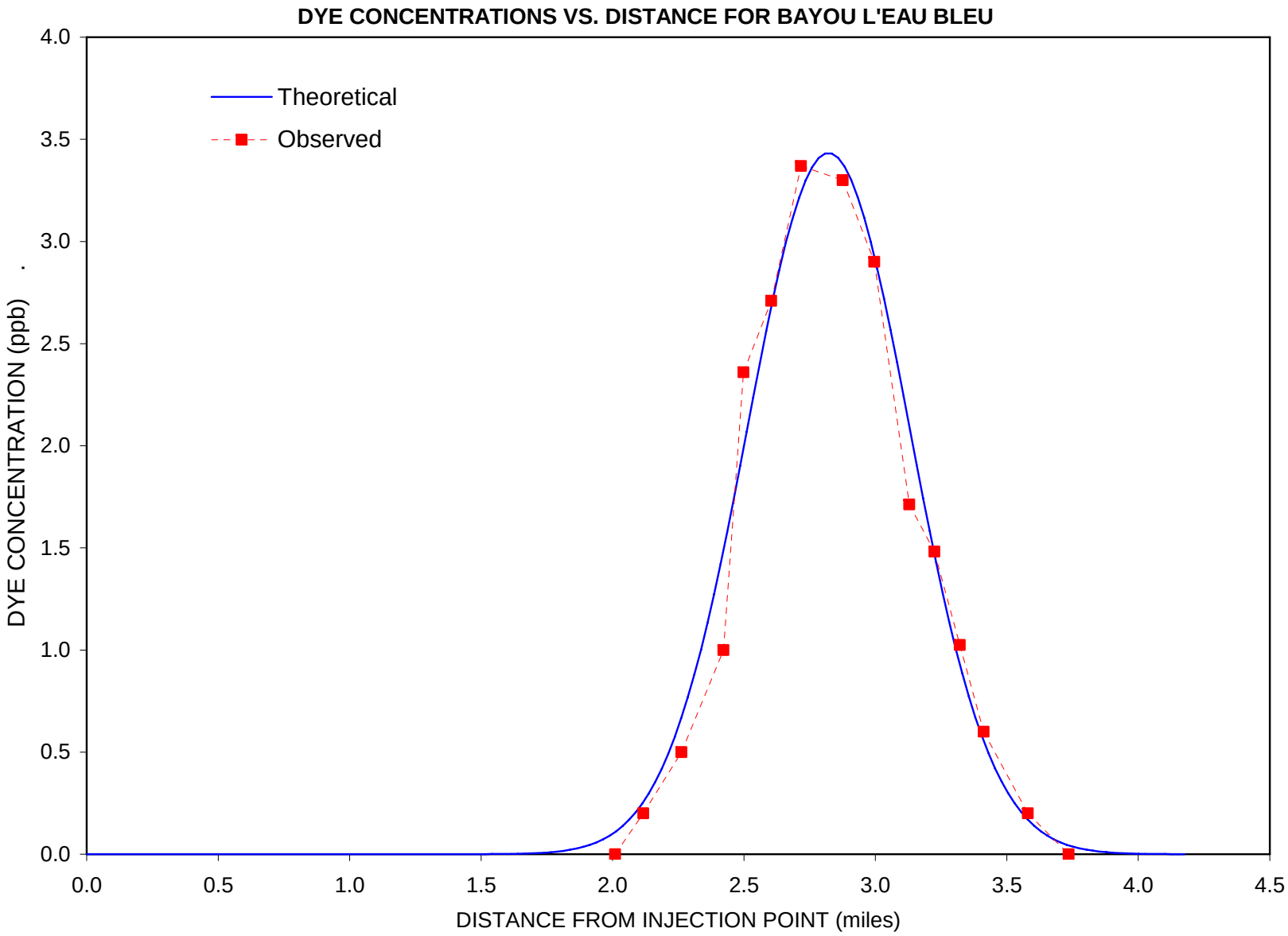
LONGITUDINAL DISPERSION COEFFICIENT =	16.1	ft^2/sec	(eqn. 5.19 from Fischer et al, 1979)
ADJUSTMENT FACTOR FOR DISPERSION =	1		("calibration" factor - 1.00 yields Fischer theoretical dispersion)
ADJUSTED LONGITUDINAL DISPERS. COEFF. =	16.1	ft^2/sec	(after applying adjustment factor)
=	1.50	m^2/sec	(converted to metric)

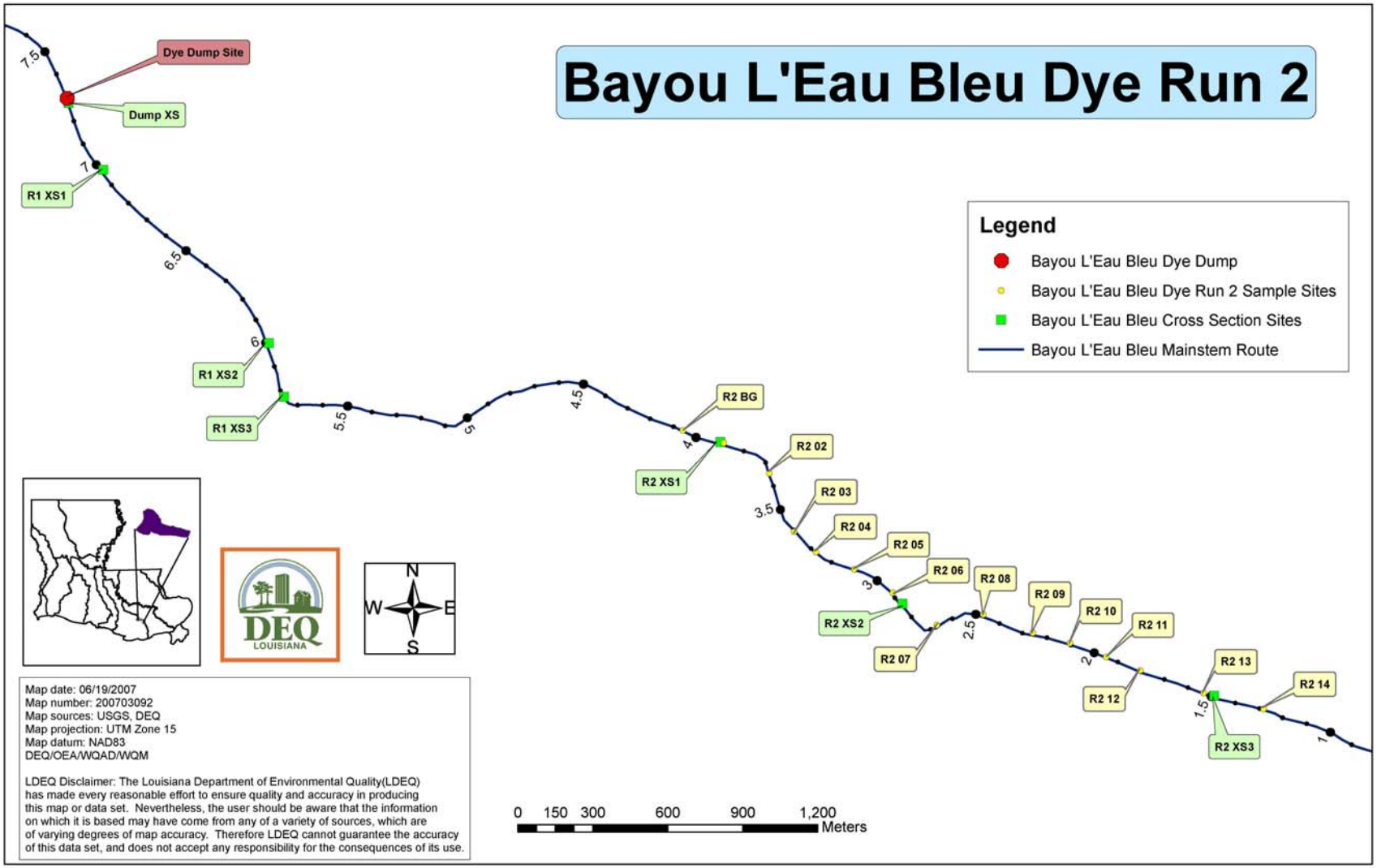
DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	PREDIC. CONC. (ppb)
0	0.00	0.0000
40	0.02	0.0000
80	0.05	0.0000
120	0.07	0.0000
160	0.10	0.0000
200	0.12	0.0000
240	0.15	0.0000
280	0.17	0.0000
320	0.20	0.0000
360	0.22	0.0000
400	0.25	0.0000
440	0.27	0.0000
480	0.30	0.0000
520	0.32	0.0000
560	0.35	0.0000
600	0.37	0.0000
640	0.40	0.0000
680	0.42	0.0000
720	0.45	0.0000
760	0.47	0.0000
800	0.50	0.0000
840	0.52	0.0000
880	0.55	0.0000
920	0.57	0.0000
960	0.60	0.0000
1000	0.62	0.0000
1040	0.65	0.0000
1080	0.67	0.0000
1120	0.70	0.0000

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	OBSERVED CONC. (ppb)
3,235.02	2.01	0.00
3,407.83	2.12	0.20
3,640.41	2.26	0.50
3,898.39	2.42	1.00
4,020.08	2.50	2.36
4,190.81	2.60	2.71
4,371.70	2.72	3.37
4,627.58	2.88	3.30
4,821.73	3.00	2.90
5,036.48	3.13	1.71
5,189.62	3.22	1.48
5,345.16	3.32	1.02
5,491.01	3.41	0.60
5,761.36	3.58	0.20
6,010.41	3.73	0.00
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	
	0.00	

START THEORETICAL CURVE (meters)	0
INCREMENT THEORETICAL CURVE (meters)	40




DYE CONCENTRATIONS VS. DISTANCE FOR BAYOU L'EAU BLEU
Theoretical
Observed
DYE CONCENTRATION (ppb)
DISTANCE FROM INJECTION POINT (miles)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5


Bayou L'Eau Bleu Dye Run 2
Dye Dump Site
Dump XS
R1 XS1
R1 XS2
R1 XS3
R2 BG
R2 XS1
R2 02
R2 03
R2 04
R2 05
R2 06
R2 XS2
R2 07
R2 08
R2 09
R2 10
R2 11
R2 12
R2 13
R2 XS3
R2 14
7.5
7
6.5
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
Legend
Bayou L'Eau Bleu Dye Dump
Bayou L'Eau Bleu Dye Run 2 Sample Sites
Bayou L'Eau Bleu Cross Section Sites
Bayou L'Eau Bleu Mainstem Route
N
W
E
S
DEQ
LOUISIANA
0 150 300 600 900 1,200
Meters
Map date: 06/19/2007
Map number: 200703092
Map sources: USGS, DEQ
Map projection: UTM Zone 15
Map datum: NAD83
DEQ/OEA/WQAD/WQM
LDEQ Disclaimer: The Louisiana Department of Environmental Quality(LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.

Appendix G– Historical and Ambient Data

Appendix G1 – Ambient Data

Critical Temperature and DO Sat Determinations for WQN 2843 for current seasons

Site Description: **Bayou L'eau Bleu West of Larose, LA**

Raw Data				
Date			DO	Temperature
Mo	D	Yr	(mg/l)	(C^o)
1	12	2004	9.97	10.65
2	9	2004	8.71	11.52
3	16	2004	5.7	20.1
4	13	2004	5.53	20.26
5	10	2004	0.18	26
6	7	2004	3.04	28.05
7	6	2004	4.5	21.6
8	2	2004	1.24	30.3
10	5	2004	4.38	27.5
11	29	2004	6.54	17.31
1	18	2006	8.36	13.5
2	6	2006	5.93	16.35
3	6	2006	8.11	19.8
4	3	2006	8.39	24.7
4	18	2006	5.72	26.91
6	6	2006	5.68	30.04
6	26	2006	4.87	30.9
7	17	2006	4.46	
8	7	2006	3.63	29.67
9	25	2006	1.72	26.73
11	13	2006	6.56	17.4
12	11	2006	8.93	10.93
10	13	2009	1.19	25.88
11	18	2009	6	16.7
12	16	2009	5.1	16.2
1	12	2010	9.9	5.3
2	9	2010	7.97	13.09
3	16	2010	6.29	17.93
4	13	2010	7.32	22.74
5	11	2010	6.45	27.04
6	15	2010	2.6	32.5
7	20	2010	3.11	30.94
8	18	2010	5.21	31.5
9	21	2010	3.25	29.53
10	15	2013	2.9	26.07
11	12	2013	6.97	18.82
12	17	2013	7.71	12.74
1	14	2014	7.01	12.9
2	18	2014	9.5	16.04
3	18	2014	5.85	16.42
4	15	2014	6.88	21.66
5	20	2014	4.39	25.47
6	17	2014	4.25	29.53
7	15	2014	4.02	29.73
8	19	2014	4.09	30.68
9	17	2014	2.55	28.59

Input values into shaded area

Summer Chlorinity	**0**
Winter Chlorinity	**0**
Summer Season 90th Percentile, Temperature(^oC):	**30.8**
Winter Season 90th Percentile, Temperature(^oC):	**16.2**
Summer Season 90 percent DO Sat	**6.7**
Winter Season 90 percent DO Sat	**8.8**

Summer Season
3
4
5
6
7
8
9
10
11

Winter Season
12
1
2

Appendix G2 – Land Use

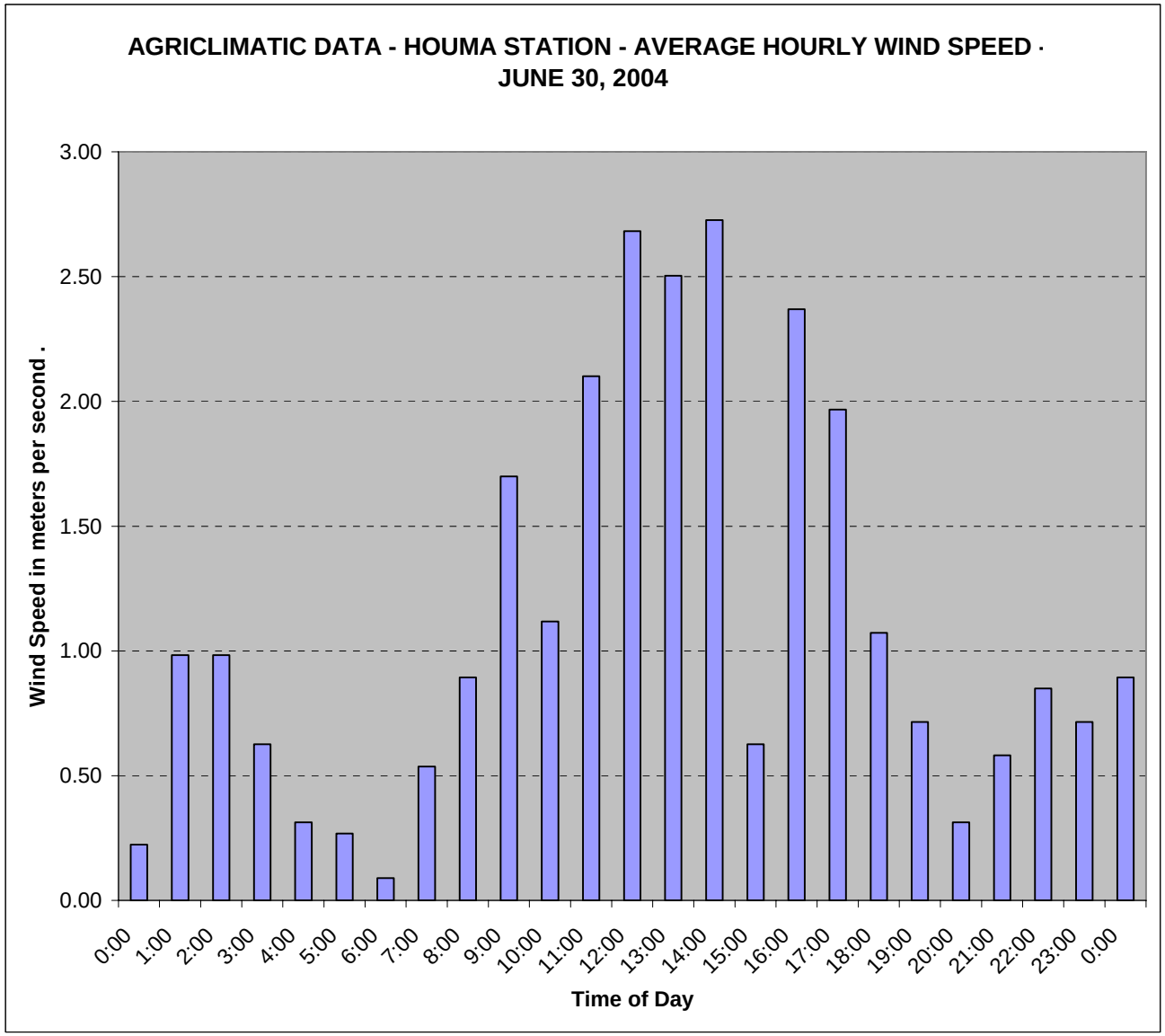
Land Use Summary

CLASS	2014 Area (Acres)	% Land Use	2008 Area (Acres)	% Land Use
Agriculture/Cropland/Grassland	9264.80	42.15	10789.02	49.16
Fresh Marsh	7469.60	33.98	4222.16	19.24
Wetland Forest Deciduous	3268.10	14.87	1838.09	8.38
Developed	1078.10	4.90	0.00	0.00
Water	664.10	3.02	2260.86	10.30
Vegetated Urban	174.80	0.80	883.80	4.03
Upland S/S Mixed	52.70	0.24	14.90	0.07
Barren	5.80	0.03	0.00	0.00
Upland Forest	2.00	0.01	0.00	0.00
Wetland S/S Deciduous	0.00	0.00	1852.99	8.44
Upland Forest Mixed	0.00	0.00	85.18	0.39
Total	**21980.00**	**100.00**	**21947.00**	**100.00**

Appendix G3 – Houma Weather Station Data

JUNE 30, 2004 WIND SPEED DATA AT HOUMA

HOUR	AVG HOURLY WIND SPEED (miles/h)	AVG HOURLY WIND SPEED (meters/s)
0:00	0.50	0.22
1:00	2.20	0.98
2:00	2.20	0.98
3:00	1.40	0.63
4:00	0.70	0.31
5:00	0.60	0.27
6:00	0.20	0.09
7:00	1.20	0.54
8:00	2.00	0.89
9:00	3.80	1.70
10:00	2.50	1.12
11:00	4.70	2.10
12:00	6.00	2.68
13:00	5.60	2.50
14:00	6.10	2.73
15:00	1.40	0.63
16:00	5.30	2.37
17:00	4.40	1.97
18:00	2.40	1.07
19:00	1.60	0.72
20:00	0.70	0.31
21:00	1.30	0.58
22:00	1.90	0.85
23:00	1.60	0.72
0:00	2.00	0.89
AVG @ 10 m ---->	2.49	1.11
TARGET HEIGHT (m)		0.30
ADJ TO .3 m ---->		0.68



Appendix G4 – 303(d) List

Final Approved 2014 Integrated Report Listing for Subsegment 120303

Subsegment Number	Subsegment Description	Type	Size (Sq. Mi.)	Designated Waterbody Uses			Suspected Causes of Impairment	Suspected Sources of Impairment	303(d) Listed
				PCR	SCR	FWP			
120303	Bayou L'Eau Bleu-From Company Canal to ICWW	River	10	Fully Supporting	Fully Supporting	Not Supporting	Turbidity	Drainage/Filling/Loss of Wetlands	IRC 5
							Turbidity	Site Clearance (Land Development or Redevelopment)	IRC 5
							Turbidity	Source Unknown	IRC 5

Abbreviations
PCR - Primary Contact Recreation
SCR - Secondary Contact Recreation
FWP - Fish and Wildlife Propagation
IRC 5 – 303(d) List

Final Approved 2016 Integrated Report Listing for Subsegment 120303

Subsegment Number	Subsegment Description	Type	Size (Sq. Mi.)	Designated Waterbody Uses		
				PCR	SCR	FWP
120303	Bayou L'Eau Bleu-From Company Canal to ICWW	River	10	Fully Supporting	Fully Supporting	Fully Supporting

Abbreviations
PCR - Primary Contact Recreation
SCR - Secondary Contact Recreation
FWP - Fish and Wildlife Propagation

Appendix H – Maps and Diagrams

Appendix H1 – Reconnaissance Survey Pictures

BAYOU L'EAU BLEU RECONNAISSANCE SURVEY

Bayou L'Eau Bleu Recon Pictures

April 6, 2016

Chuck Berger, Delveccio Brown, Eric Gardner, Chaz Keatings

Tom Foret Canal at Bayou L'Eau Bleu
upstream from Tom Foret in Bayou L'Eau Bleu

Tom Foret Canal upstream
into Tom Foret Canal

Tom Foret Canal downstream into Bayou L'Eau Bleu

Intersection of Barge Canal and Bayou L'Eau Bleu

Barge Canal at Bayou L'Eau Bleu

Bayou L'Eau Bleu leaving Barge Canal

Discontinued WQN 0931

Bridge near discontinued WQN 0931

Discontinued WQN 0931

Discontinued WQN 0931

Bayou L'Eau Bleu leaving WQN 0931

Bayou L'Eau Bleu looking upstream

Looking downstream at bridge near WQN 0931

Site of 2004 dye study between WQN 0931 and BLB-05

BLB-05 (Allen Ranch Rd.)

Bridge downstream from BLB-05

Looking upstream from
BLB-05 toward Gateway Trace Lane

Upstream from BLB-05

Between BLB-05 and Gateway Trace Lane

Approaching BLB-05

Approaching BLB-05	Pump Station near Gateway Trace Lane
Water Hyacinth under bridge at Gateway Trace Lane	Water Hyacinth at Gateway Trace Lane
Water Hyacinth	Flow near Gateway Trace Lane

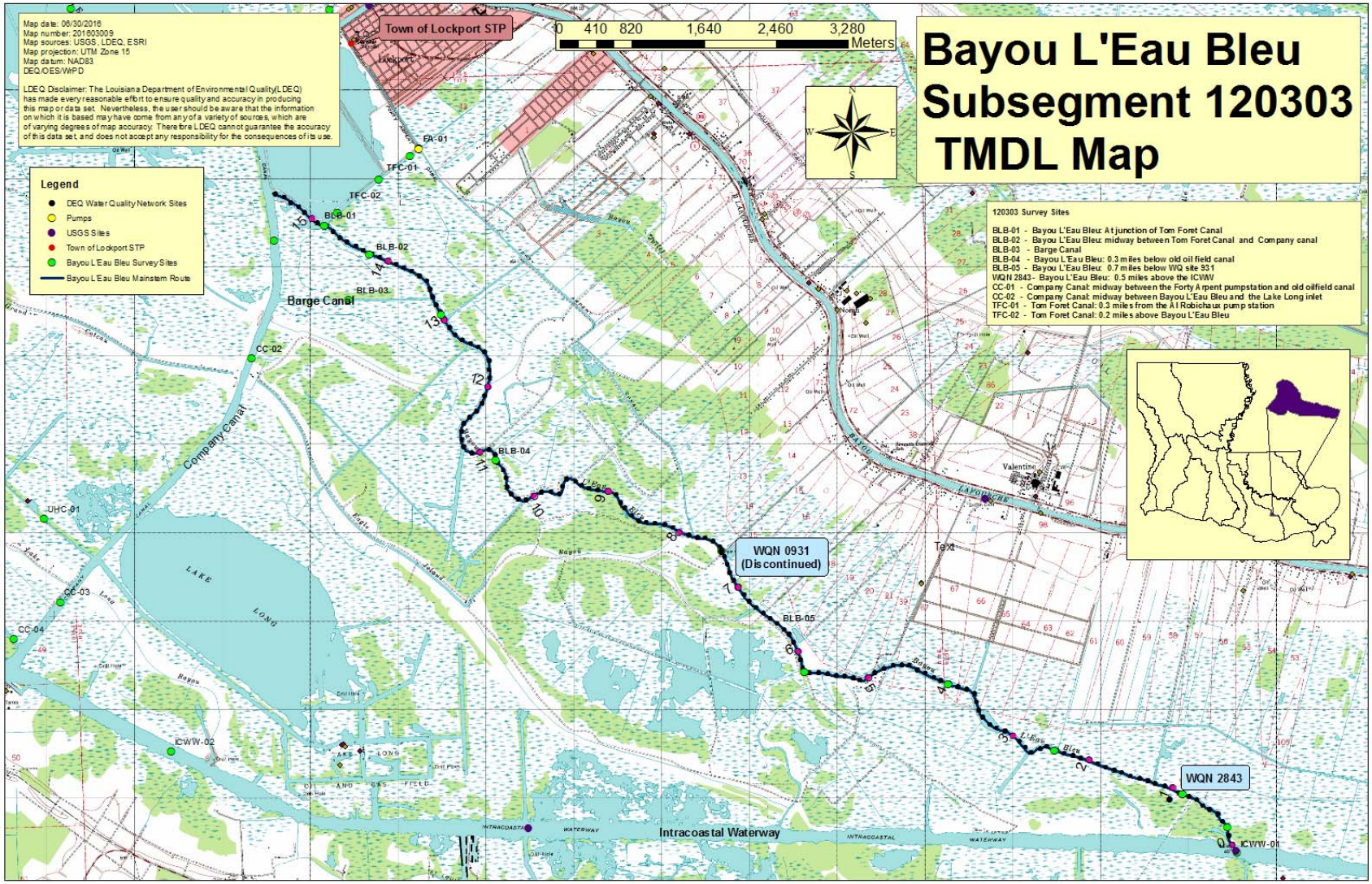
Pump Station near Gateway Trace Lane	Leaving Gateway Trace and heading toward ICWW

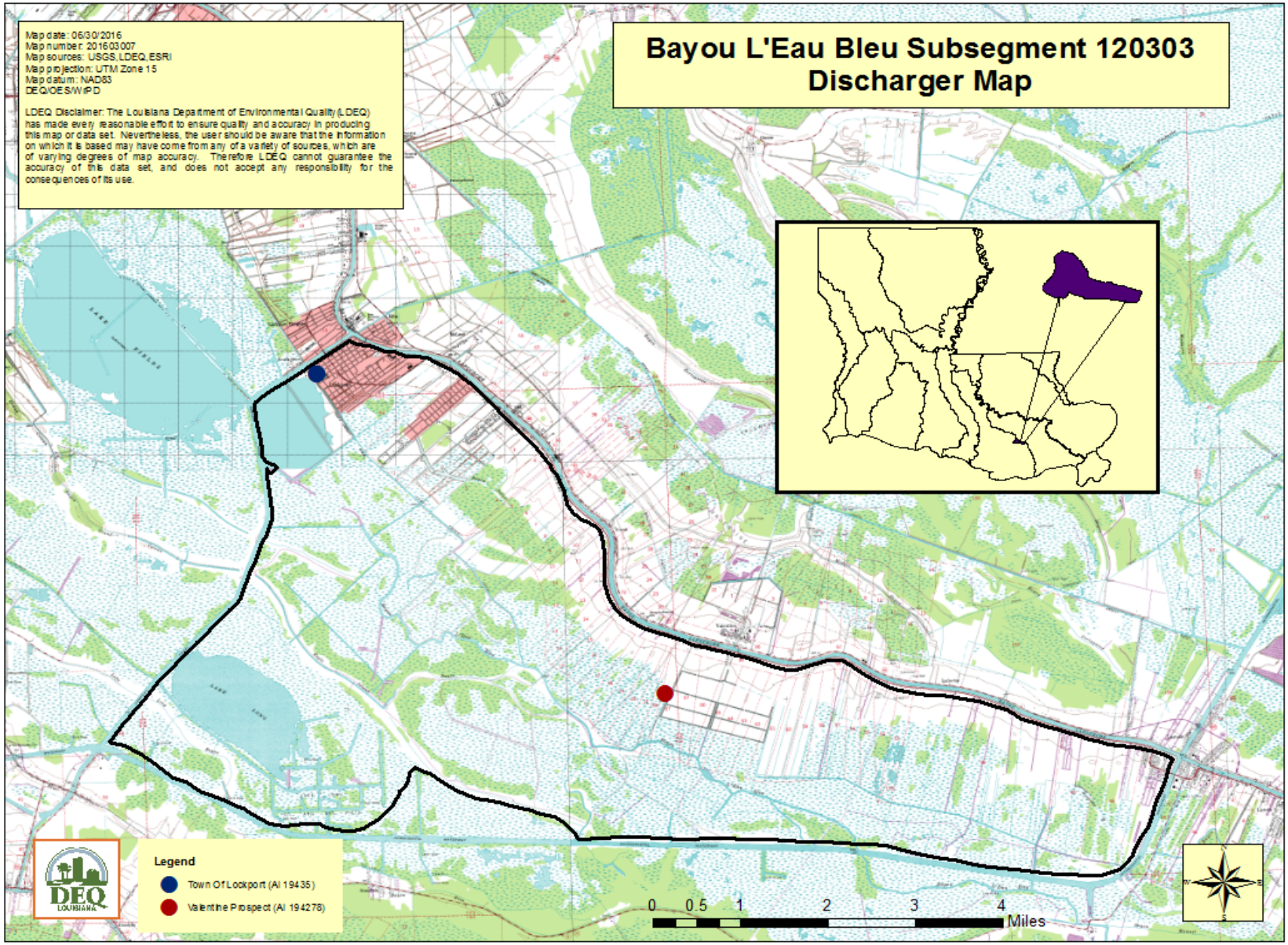
Intersection of Bayou L'Eau Bleu and ICWW	From ICWW looking toward Bayou L'Eau Bleu (ICWW-01)
Site ICWW-01	WQN 2843 Sampling Site

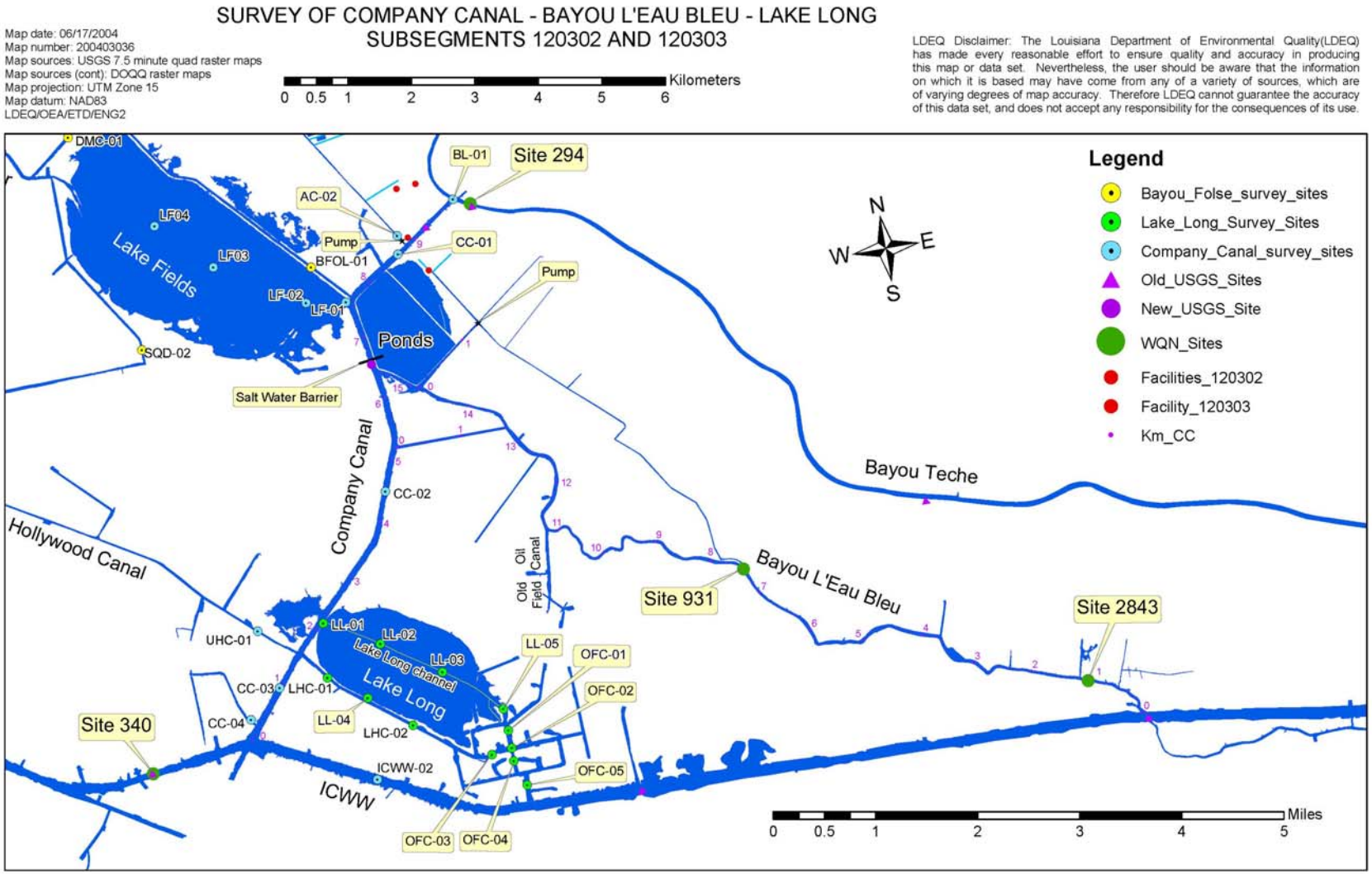
WQN 2843 Sampling Site	WQN 2843 Sampling Site

BLB-04 Sampling Site	BLB-04 Sampling Site
Barge Canal to Company Canal	Company Canal behind Lafourche Ford

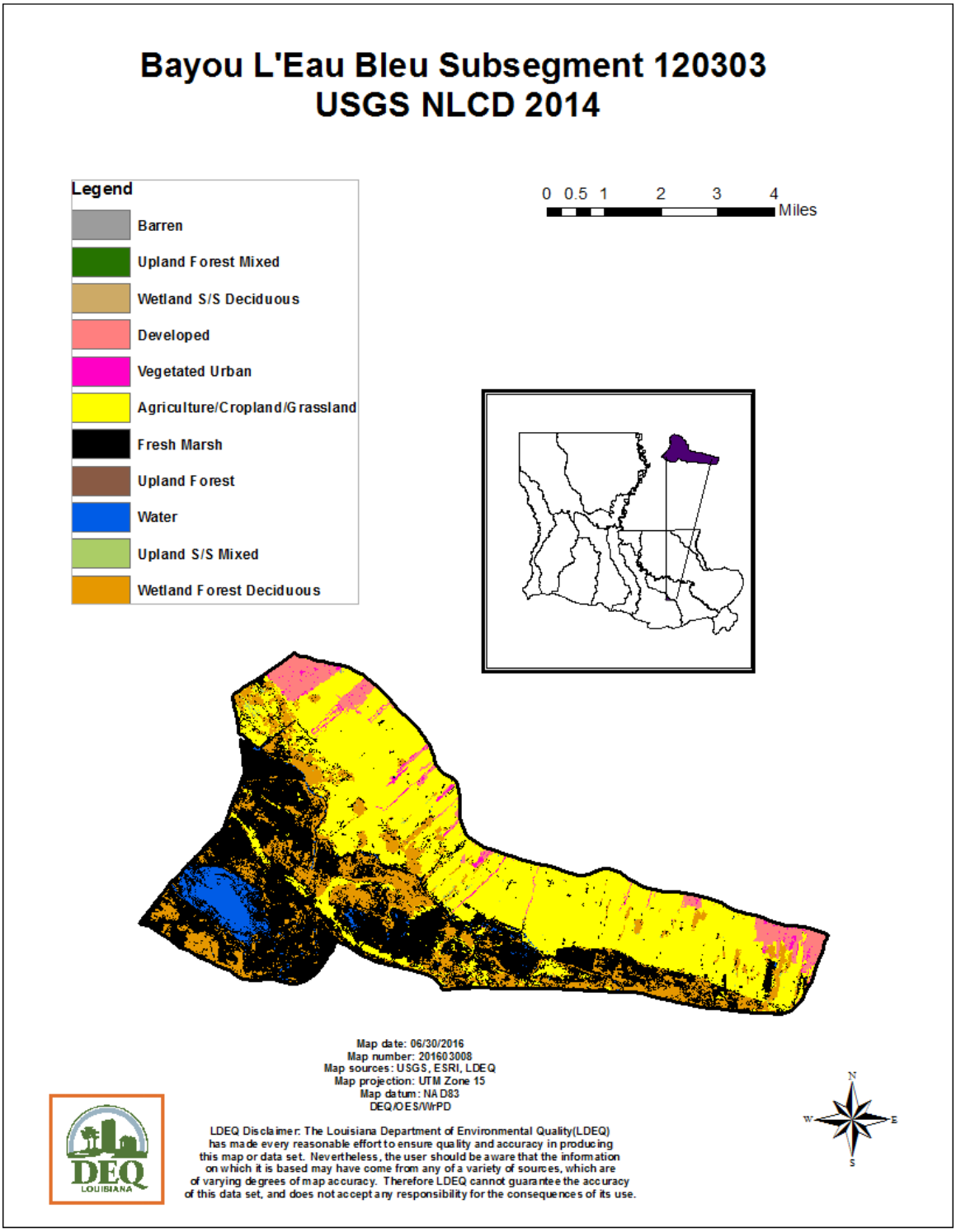
Appendix H2- Overview Maps

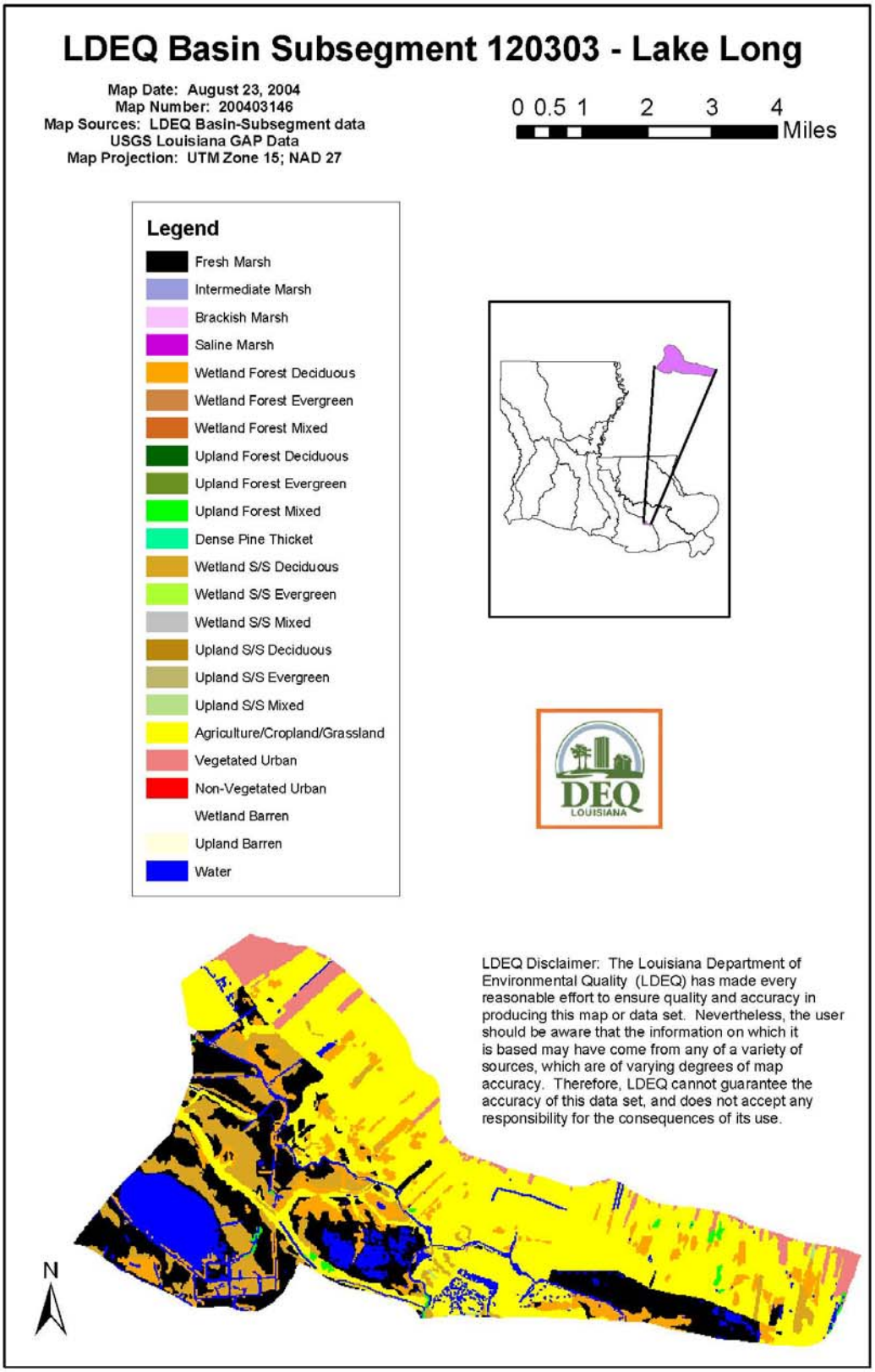

Bayou L'Eau Bleu
Subsegment 120303
TMDL Map
Map date: 06/30/2016
Map number: 201603009
Map sources: USGS, LDEQ, ESRI
Map projection: UTM Zone 15
Map datum: NAD83
DEQ/OES/WPD
LDEQ Disclaimer: The Louisiana Department of Environmental Quality(LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.
Town of Lockport STP
0 410 820 1,640 2,460 3,280
Meters
Legend
DEQ Water Quality Network Sites
Pumps
USGS Sites
Town of Lockport STP
Bayou L'Eau Bleu Survey Sites
Bayou L'Eau Bleu Mainstem Route
120303 Survey Sites
BLB-01 - Bayou L'Eau Bleu: At junction of Tom Foret Canal
BLB-02 - Bayou L'Eau Bleu: midway between Tom Foret Canal and Company canal
BLB-03 - Barge Canal
BLB-04 - Bayou L'Eau Bleu: 0.3 miles below old oil field canal
BLB-05 - Bayou L'Eau Bleu: 0.7 miles below WQ site 931
WQN 2843- Bayou L'Eau Bleu: 0.5 miles above the ICWW
CC-01 - Company Canal: midway between the Forty Arpent pumpstation and old oilfield canal
CC-02 - Company Canal: midway between Bayou L'Eau Bleu and the Lake Long inlet
TFC-01 - Tom Foret Canal: 0.3 miles from the Al Robichaux pump station
TFC-02 - Tom Foret Canal: 0.2 miles above Bayou L'Eau Bleu
FA-01
TFC-01
TFC-02
BLB-01
BLB-02
BLB-03
Barge Canal
CC-02
Company Canal
BLB-04
UHC-01
CC-03
CC-04
LAKE LONG
WQN 0931
(Discontinued)
BLB-05
ICWW-02
WQN 2843
ICWW-01
Intracoastal Waterway
Valentine
Text


Bayou L'Eau Bleu Subsegment 120303
Discharger Map
Map date: 06/30/2016
Map number: 201603007
Map sources: USGS, LDEQ, ESRI
Map projection: UTM Zone 15
Map datum: NAD83
DEQ/OES/WPD
LDEQ Disclaimer: The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.
Legend
Town Of Lockport (AI 19435)
Valentine Prospect (AI 194278)
0 0.5 1 2 3 4
Miles

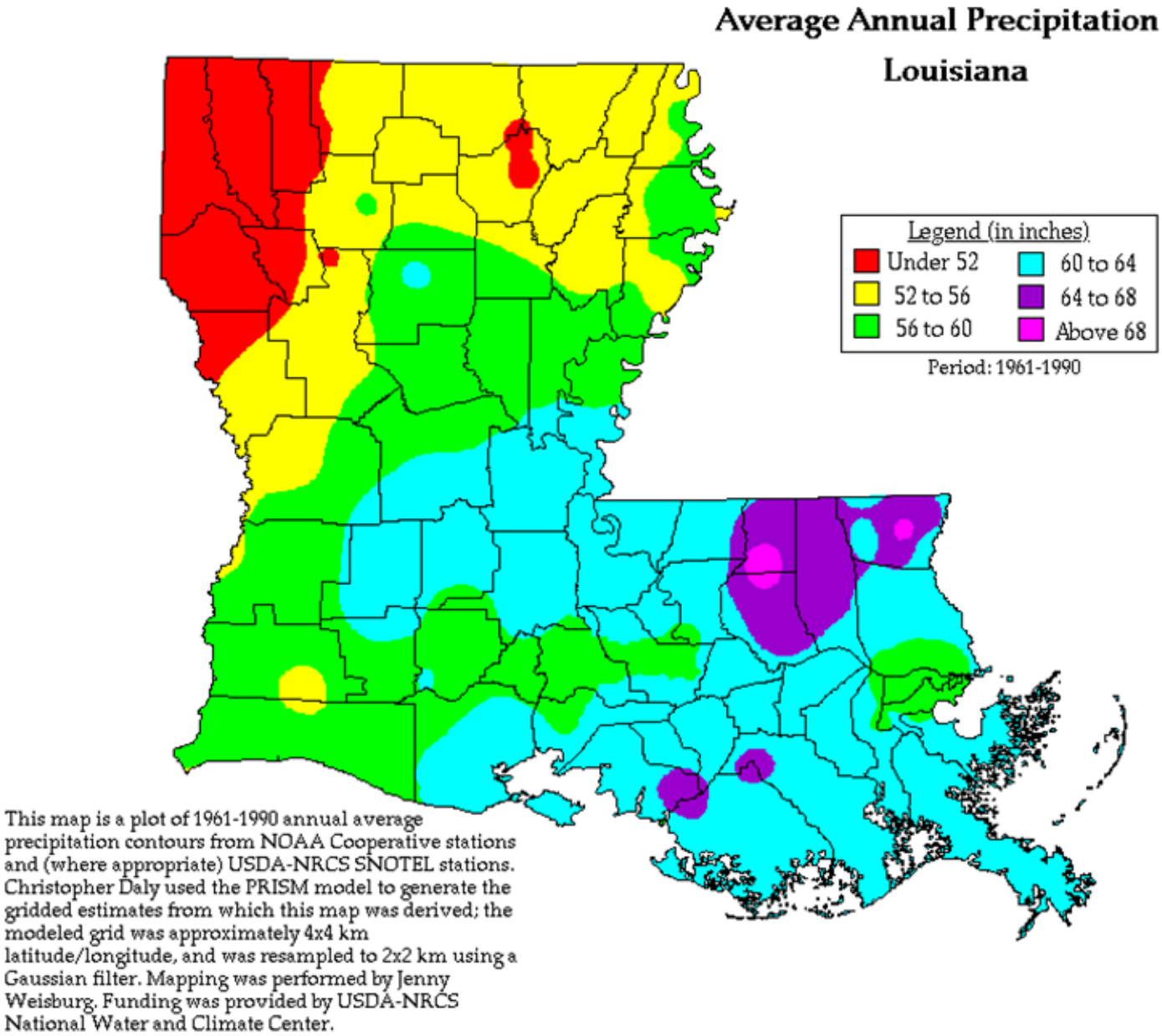

SURVEY OF COMPANY CANAL - BAYOU L'EAU BLEU - LAKE LONG
SUBSEGMENTS 120302 AND 120303
Map date: 06/17/2004
Map number: 200403036
Map sources: USGS 7.5 minute quad raster maps
Map sources (cont): DOQQ raster maps
Map projection: UTM Zone 15
Map datum: NAD83
LDEQ/OEA/ETD/ENG2
Kilometers
0 0.5 1 2 3 4 5 6
LDEQ Disclaimer: The Louisiana Department of Environmental Quality(LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.
Legend
Bayou_Folse_survey_sites
Lake_Long_Survey_Sites
Company_Canal_survey_sites
Old_USGS_Sites
New_USGS_Site
WQN_Sites
Facilities_120302
Facility_120303
Km_CC
N
E
S
W
DMC-01
LF04
LF03
LF-02
LF-01
Lake Fields
SQD-02
AC-02
Pump
BFOL-01
BL-01
Site 294
CC-01
Pump
Ponds
Salt Water Barrier
Company Canal
CC-02
Hollywood Canal
Old Field Oil Canal
Bayou Teche
Bayou L'Eau Bleu
Site 931
Site 2843
UHC-01
LL-01
LL-02
LL-03
Lake Long channel
Lake Long
LL-05
OFC-01
OFC-02
CC-03
LHC-01
LL-04
LHC-02
CC-04
Site 340
ICWW-02
ICWW
OFC-05
OFC-03
OFC-04
Miles
0 0.5 1 2 3 4 5

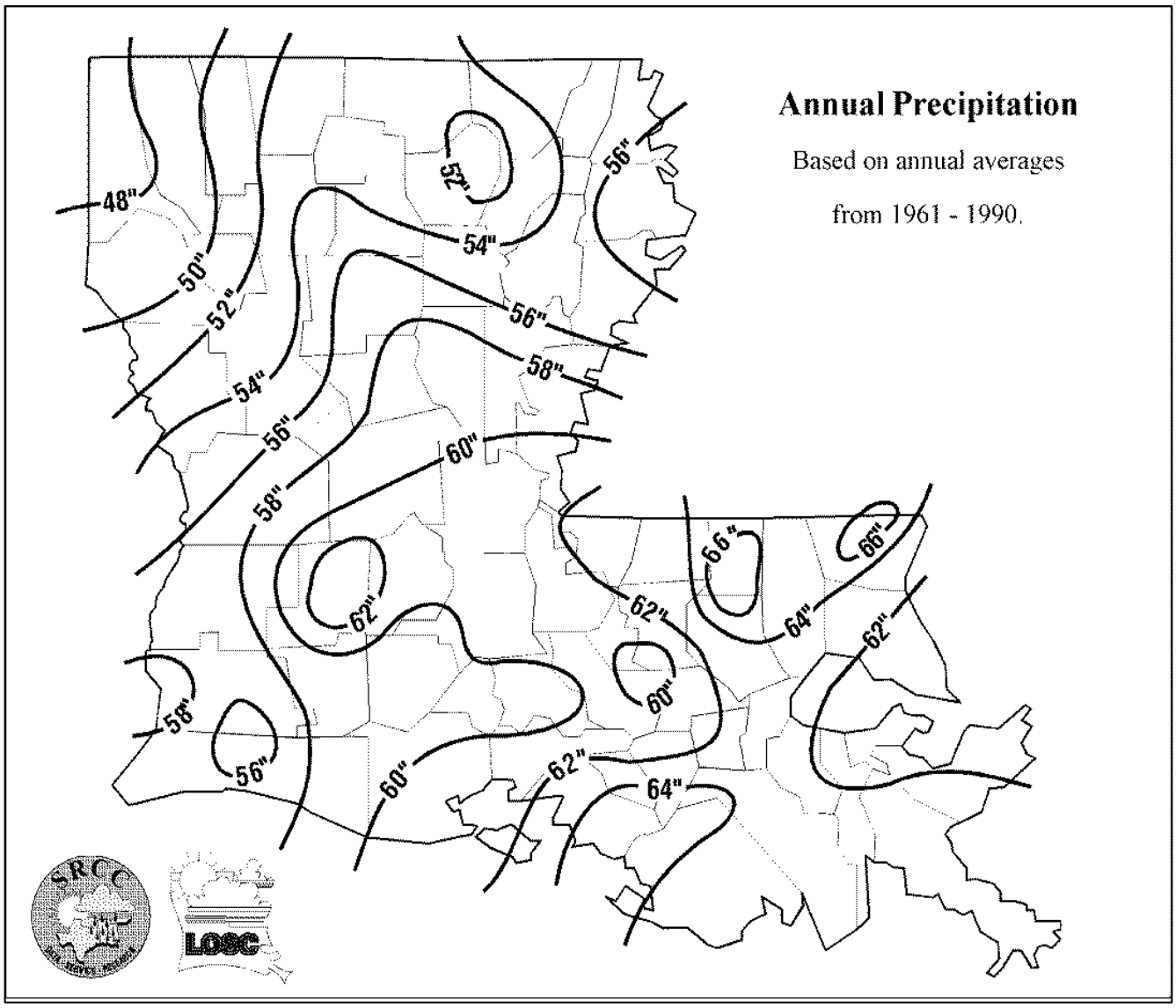
Appendix H3 – Land Use Maps

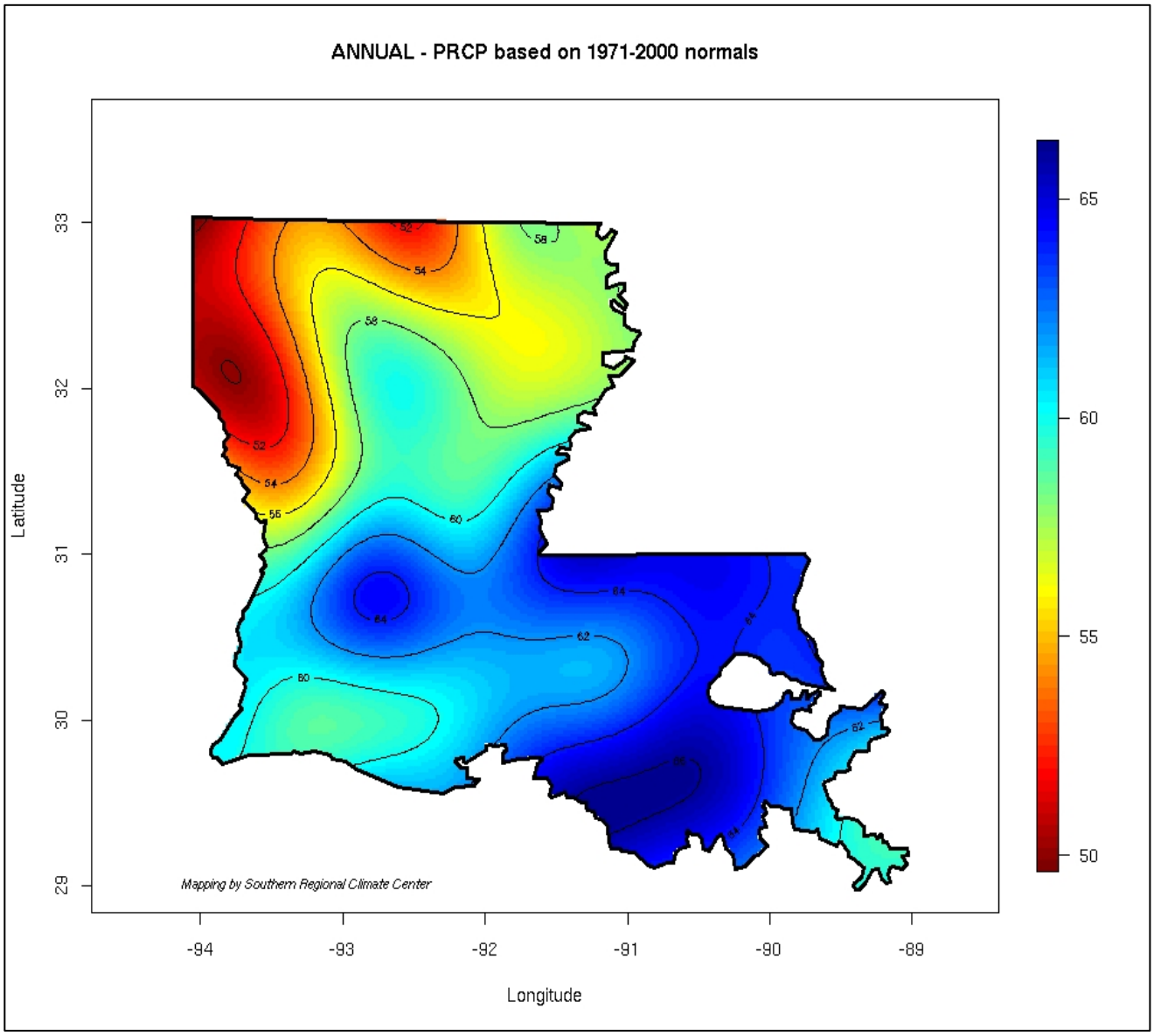

Bayou L'Eau Bleu Subsegment 120303
USGS NLCD 2014
Legend
Barren
Upland Forest Mixed
Wetland S/S Deciduous
Developed
Vegetated Urban
Agriculture/Cropland/Grassland
Fresh Marsh
Upland Forest
Water
Upland S/S Mixed
Wetland Forest Deciduous
0 0.5 1 2 3 4
Miles
Map date: 06/30/2016
Map number: 201603008
Map sources: USGS, ESRI, LDEQ
Map projection: UTM Zone 15
Map datum: NAD83
DEQ/OES/WrPD
LDEQ Disclaimer: The Louisiana Department of Environmental Quality(LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.
DEQ
LOUISIANA
N
W
E
S


LDEQ Basin Subsegment 120303 - Lake Long
Map Date: August 23, 2004
Map Number: 200403146
Map Sources: LDEQ Basin-Subsegment data
USGS Louisiana GAP Data
Map Projection: UTM Zone 15; NAD 27
0 0.5 1 2 3 4
Miles
Legend
Fresh Marsh
Intermediate Marsh
Brackish Marsh
Saline Marsh
Wetland Forest Deciduous
Wetland Forest Evergreen
Wetland Forest Mixed
Upland Forest Deciduous
Upland Forest Evergreen
Upland Forest Mixed
Dense Pine Thicket
Wetland S/S Deciduous
Wetland S/S Evergreen
Wetland S/S Mixed
Upland S/S Deciduous
Upland S/S Evergreen
Upland S/S Mixed
Agriculture/Cropland/Grassland
Vegetated Urban
Non-Vegetated Urban
Wetland Barren
Upland Barren
Water
DEQ
LOUISIANA
LDEQ Disclaimer: The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.
N

Appendix H4 – La Precipitation Maps


Average Annual Precipitation
Louisiana
Legend (in inches)
Under 52
52 to 56
56 to 60
60 to 64
64 to 68
Above 68
Period: 1961-1990
This map is a plot of 1961-1990 annual average precipitation contours from NOAA Cooperative stations and (where appropriate) USDA-NRCS SNOTEL stations. Christopher Daly used the PRISM model to generate the gridded estimates from which this map was derived; the modeled grid was approximately 4x4 km latitude/longitude, and was resampled to 2x2 km using a Gaussian filter. Mapping was performed by Jenny Weisburg. Funding was provided by USDA-NRCS National Water and Climate Center.


Annual Precipitation
Based on annual averages
from 1961 - 1990.
48"
50"
52"
54"
56"
58"
60"
62"
64"
66"
LOSC


ANNUAL - PRCP based on 1971-2000 normals
Latitude
Longitude
33
32
31
30
29
-94
-93
-92
-91
-90
-89
65
60
55
50
Mapping by Southern Regional Climate Center

Appendix I – Sensitivity Analysis

Appendix I1 – Sensitivity Summary Table and Output Graphs

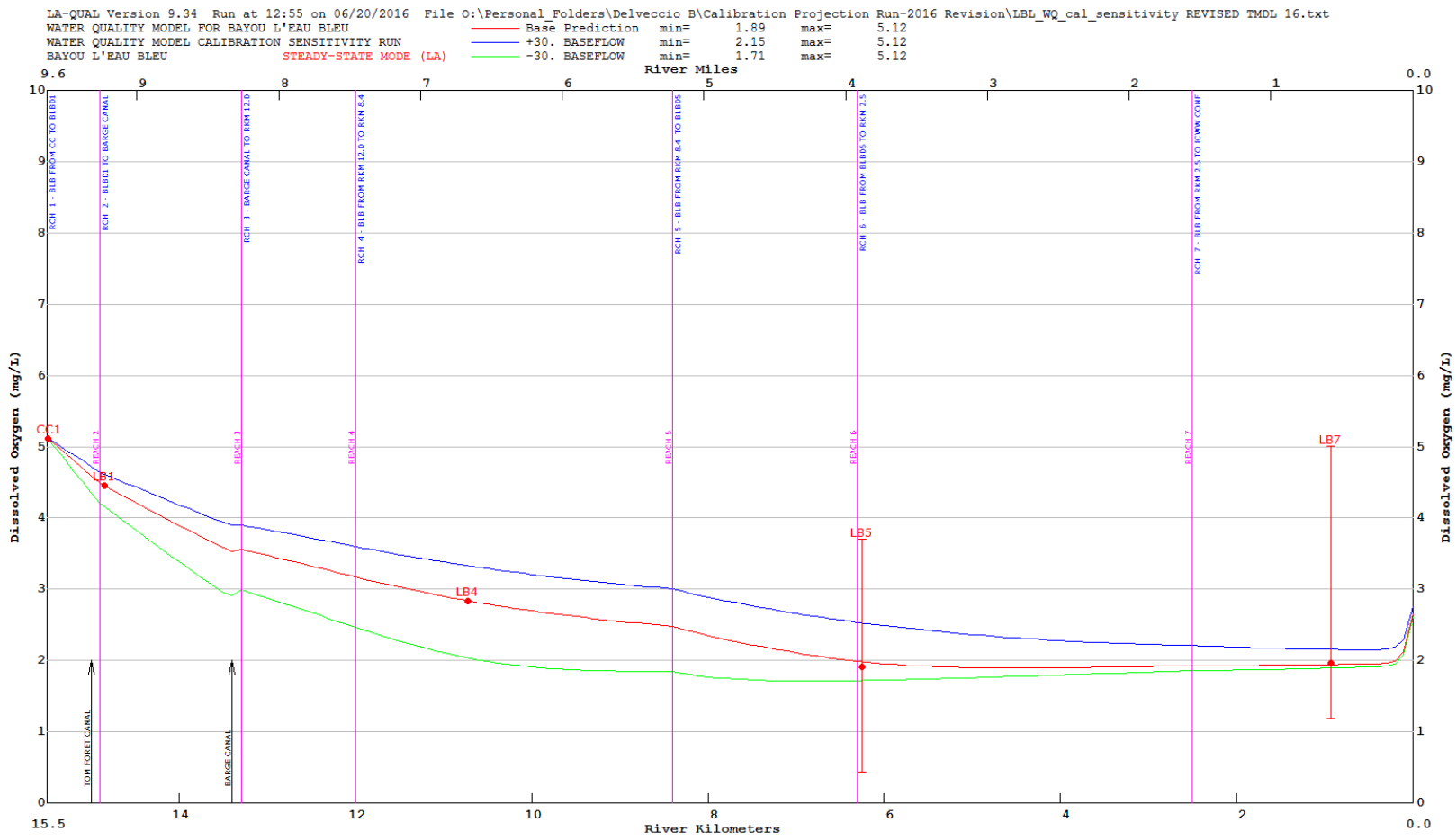
BAYOU L'EAU BLEU SENSITIVITY MODEL SUMMARY TABLE

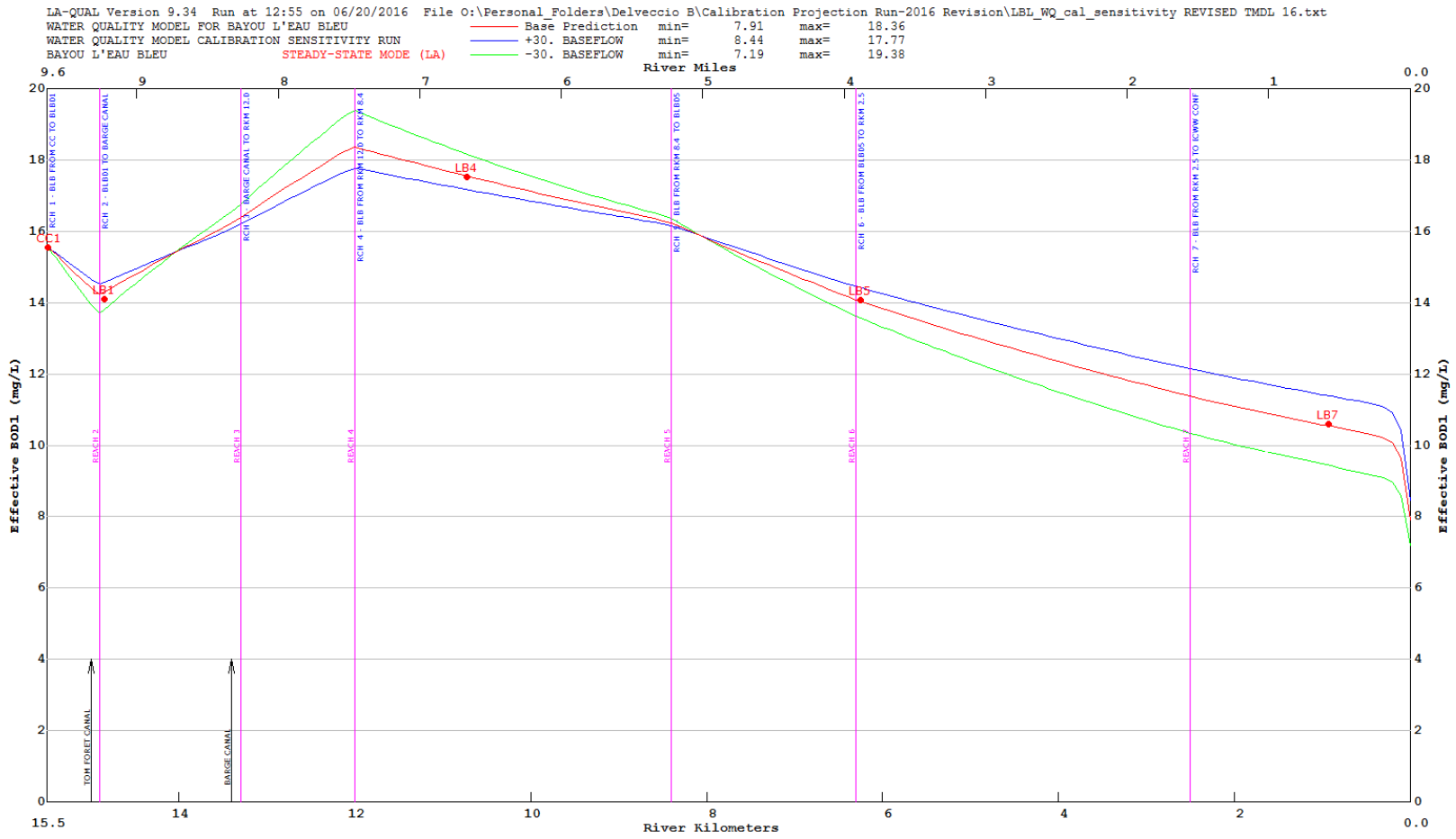
SENSITIVITY ANALYSIS SUMMARY

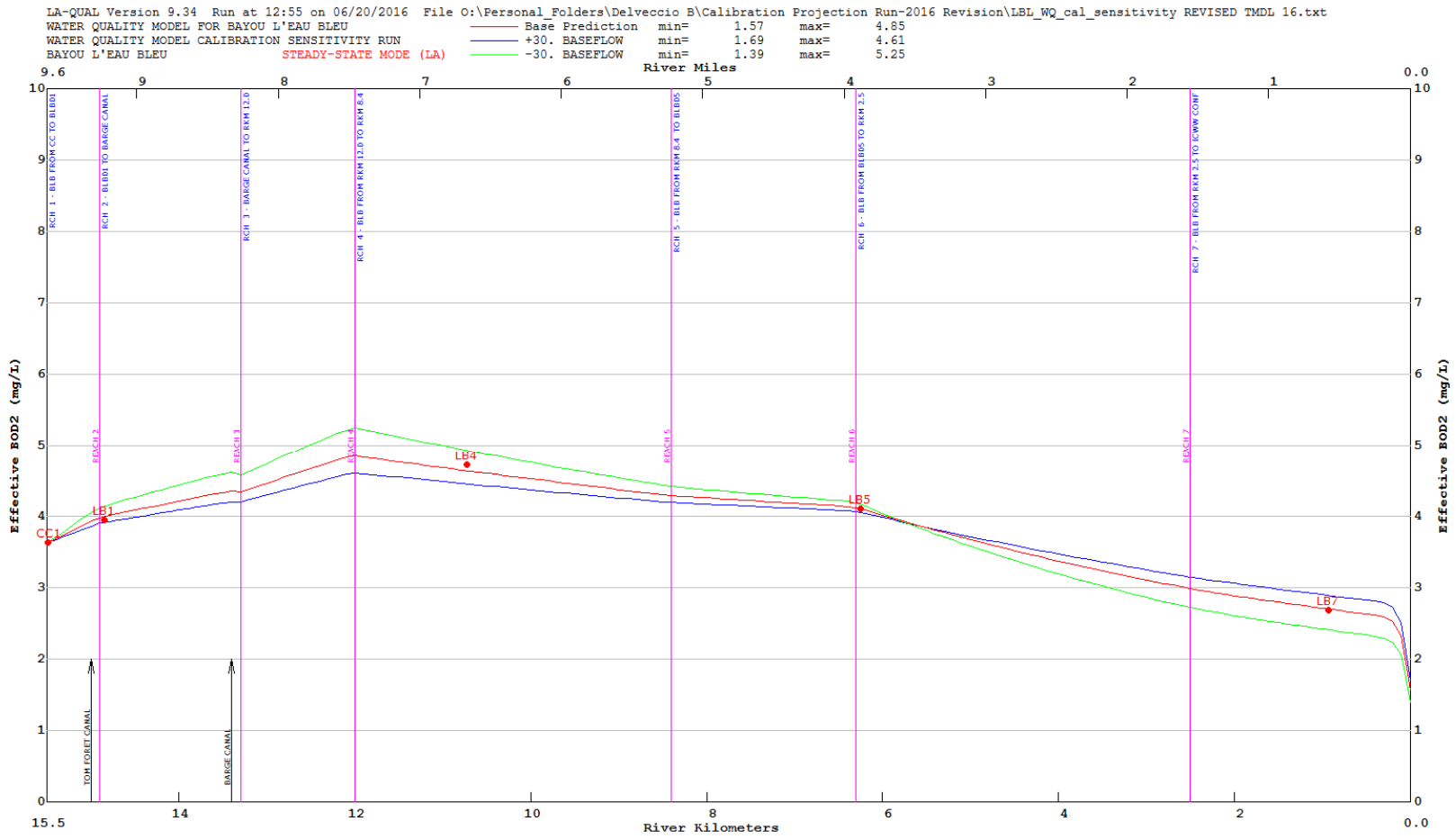
BAYOU L'EAU BLEU MODEL CALIBRATION

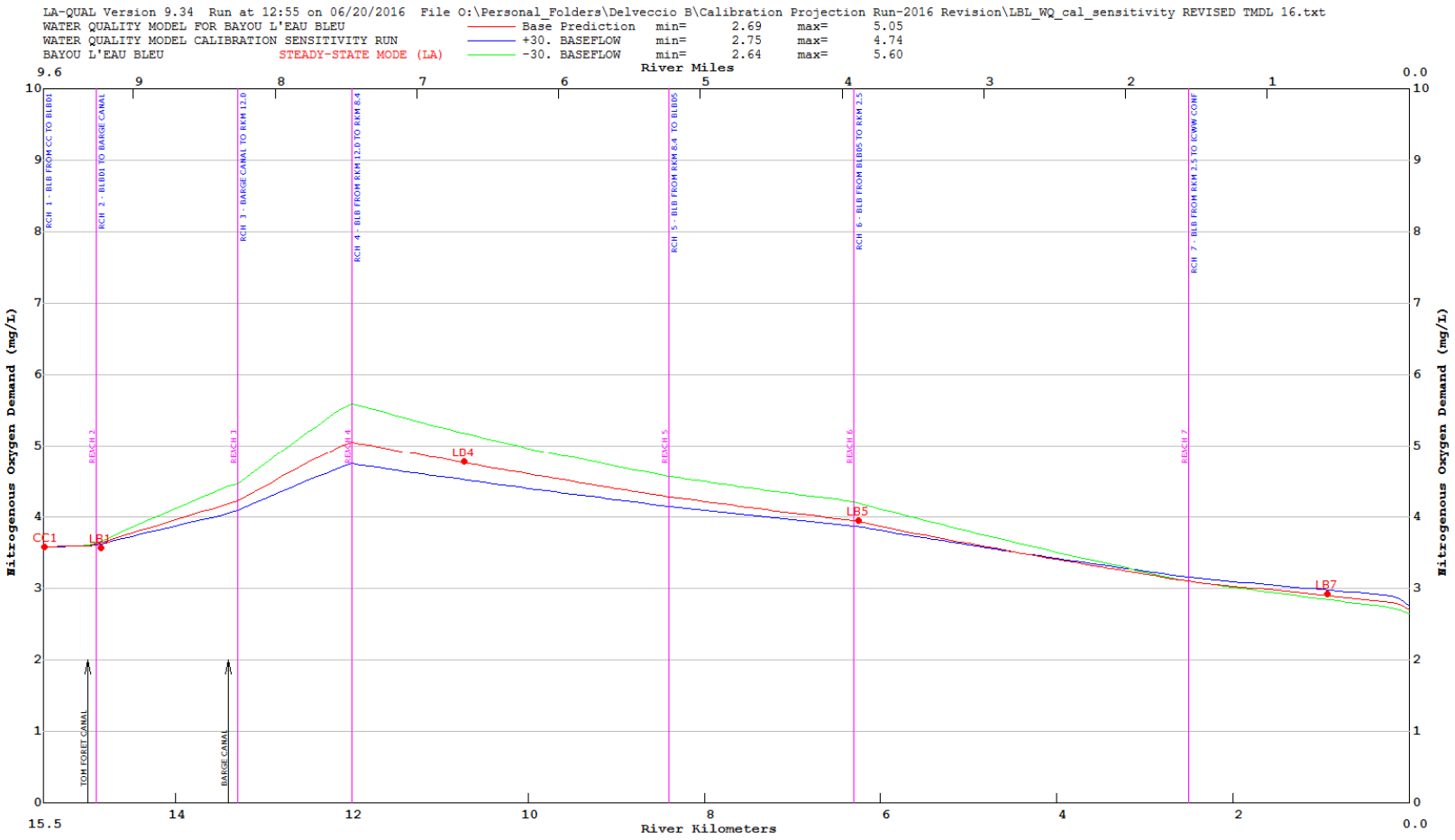
Plot 1 Base Model Minimum DO = 1.89

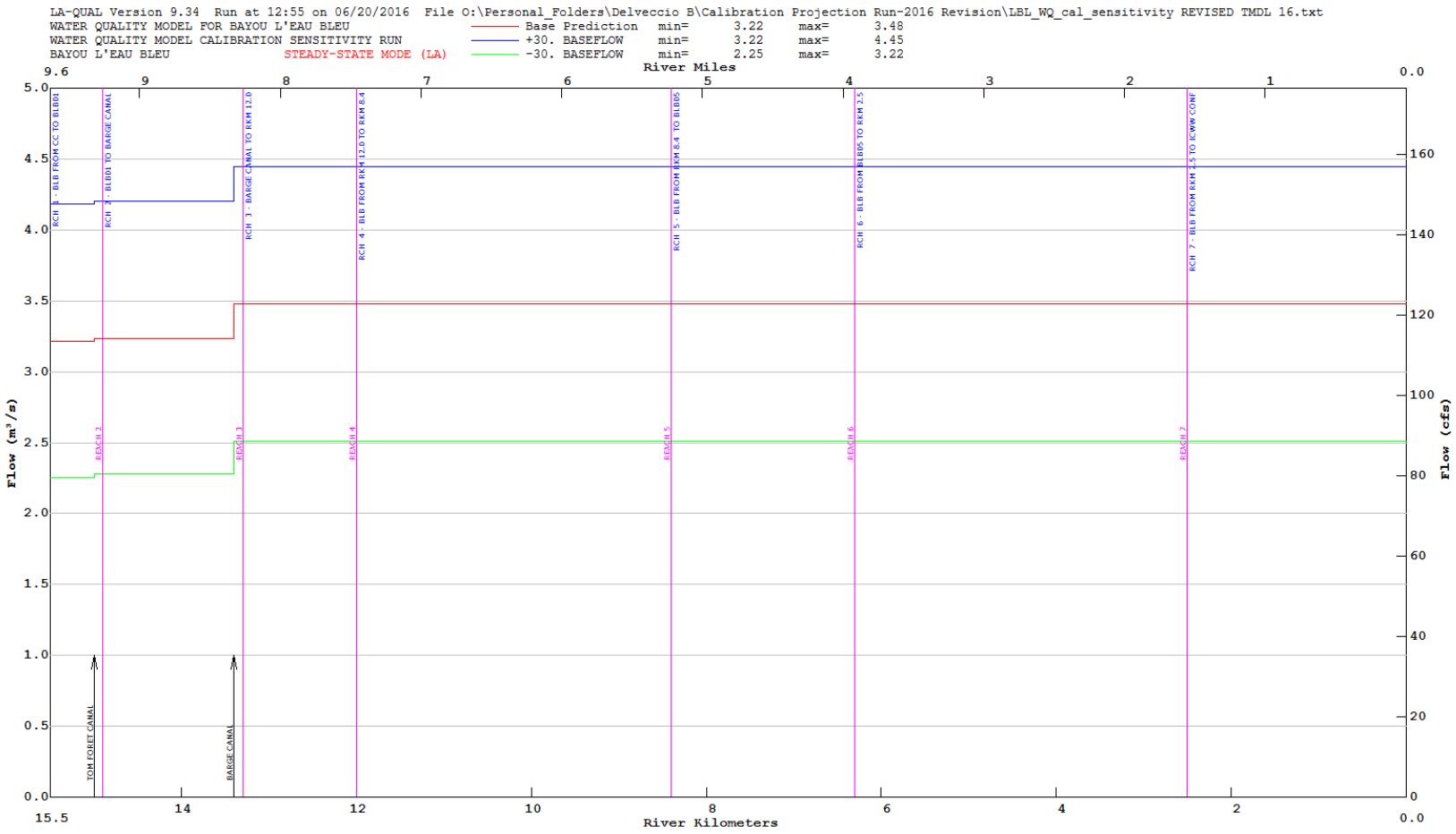
Parameter	% Parameter Change	Min D.O.	% D.O. Change	% Parameter Change	Min D.O.	% D.O. Change
Stream Reaeration	-30	1.43	-24.3	30	2.88	52.1
Benthal Demand	-30	2.46	30.0	30	1.68	-11.2
Stream Depth	-30	2.50	31.9	30	1.70	-10.2
CBOD1 Aerobic Decay Rate	-30	2.31	22.2	30	1.73	-8.6
Initial Temperature (^oC)	-2	2.31	22.0	2	1.72	-9.3
Headwater CBOD1	-30	2.10	10.9	30	1.78	-6.1
Stream Baseflow	-30	1.71	-9.7	30	2.15	13.4
Headwater Flow	-30	1.71	-9.7	30	2.15	13.4
CBOD1 Settling Rate	-30	1.82	-3.8	30	1.98	4.4
Headwater DO	-30	1.84	-2.9	30	1.94	2.7
Stream Velocity	-30	1.84	-2.9	30	1.92	1.3
NBOD Decay Rate	-30	1.95	2.8	30	1.85	-2.1
Headwater NBOD	-30	1.92	1.7	30	1.86	-1.5
CBOD2 Aerobic Decay Rate	-30	1.91	1.1	30	1.87	-1.0
Wasteload Flow	-30	1.88	-0.7	30	1.91	0.7
Headwater CBOD2	-30	1.90	0.6	30	1.88	-0.6
Wasteload CBOD1	-30	1.90	0.6	30	1.88	-0.6
NBOD Settling Rate	-30	1.88	-0.5	30	1.90	0.5
Wasteload DO	-30	1.89	-0.3	30	1.90	0.3
Wasteload NBOD	-30	1.90	0.2	30	1.89	-0.2
Initial Chlorophyll a	-30	1.89	0.0	30	1.89	0.0
CBOD2 Settling Rate	-30	1.89	0.0	30	1.89	0.0
Stream Dispersion	-30	1.89	0.0	30	1.89	0.0
Wasteload Temperature (^oC)	-2	1.89	0.0	2	1.89	0.0
Wasteload CBOD2	-30	1.89	0.0	30	1.89	0.0
Lower Boundary Temperature (^oC)	-2	1.89	0.0	2	1.89	0.0
Lower Boundary DO	-30	1.89	0.0	30	1.89	0.0
Lower Boundary CBOD1	-30	1.89	0.0	30	1.89	0.0
Lower Boundary CBOD2	-30	1.89	0.0	30	1.89	0.0
Lower Boundary NBOD	-30	1.89	0.0	30	1.89	0.0

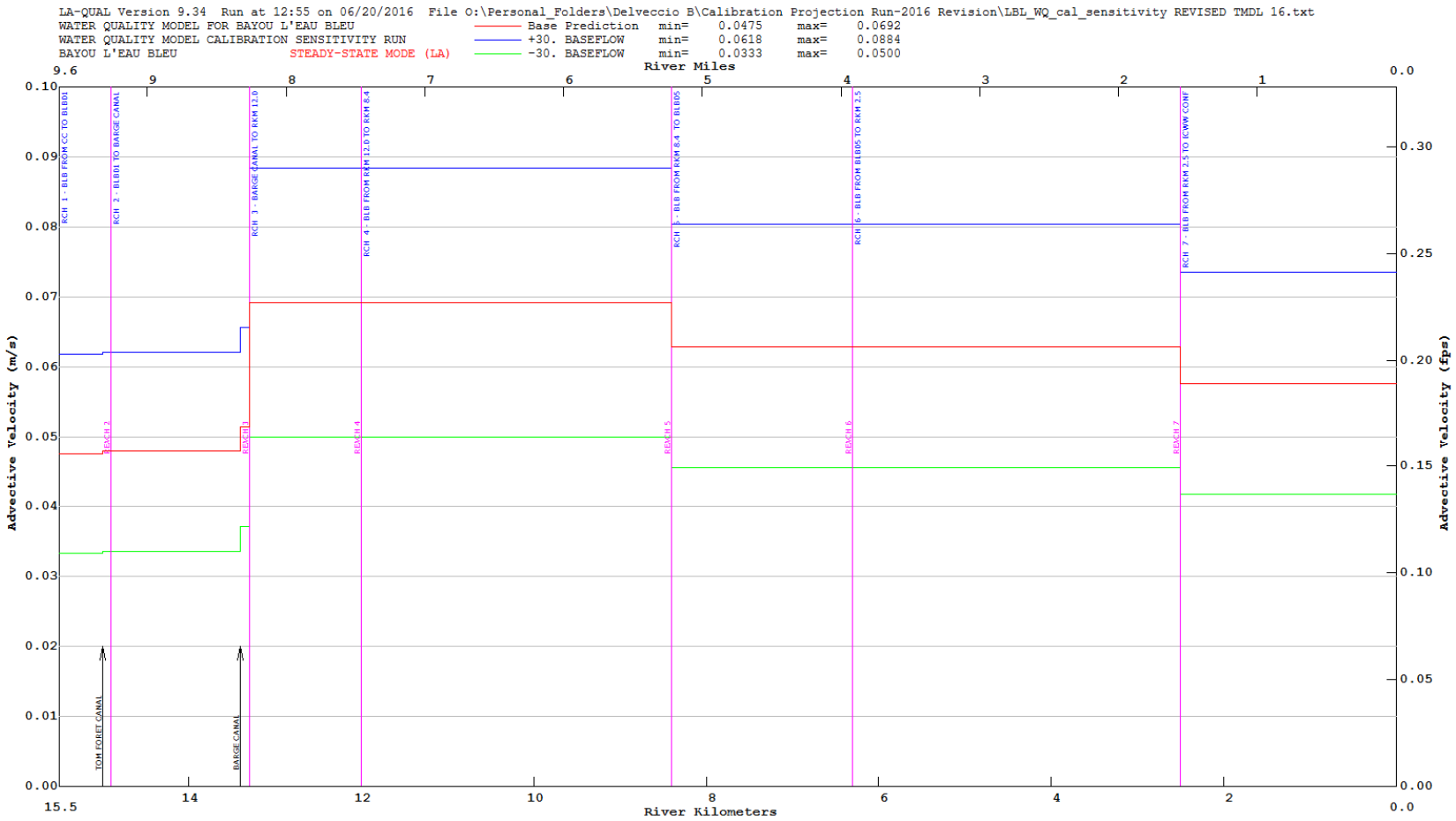

LA-QUAL Version 9.34 Run at 12:55 on 06/20/2016 File O:\Personal_Folders\Delveccio B\Calibration Projection Run-2016 Revision\LBL_WQ_cal_sensitivity REVISED TMDL 16.txt
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
Base Prediction min= 1.89 max= 5.12
+30. BASEFLOW min= 2.15 max= 5.12
-30. BASEFLOW min= 1.71 max= 5.12
River Miles
River Kilometers
Dissolved Oxygen (mg/L)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO ICWW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FORET CANAL
BARGE CANAL
CC1
LB1
LB4
LB5
LB7

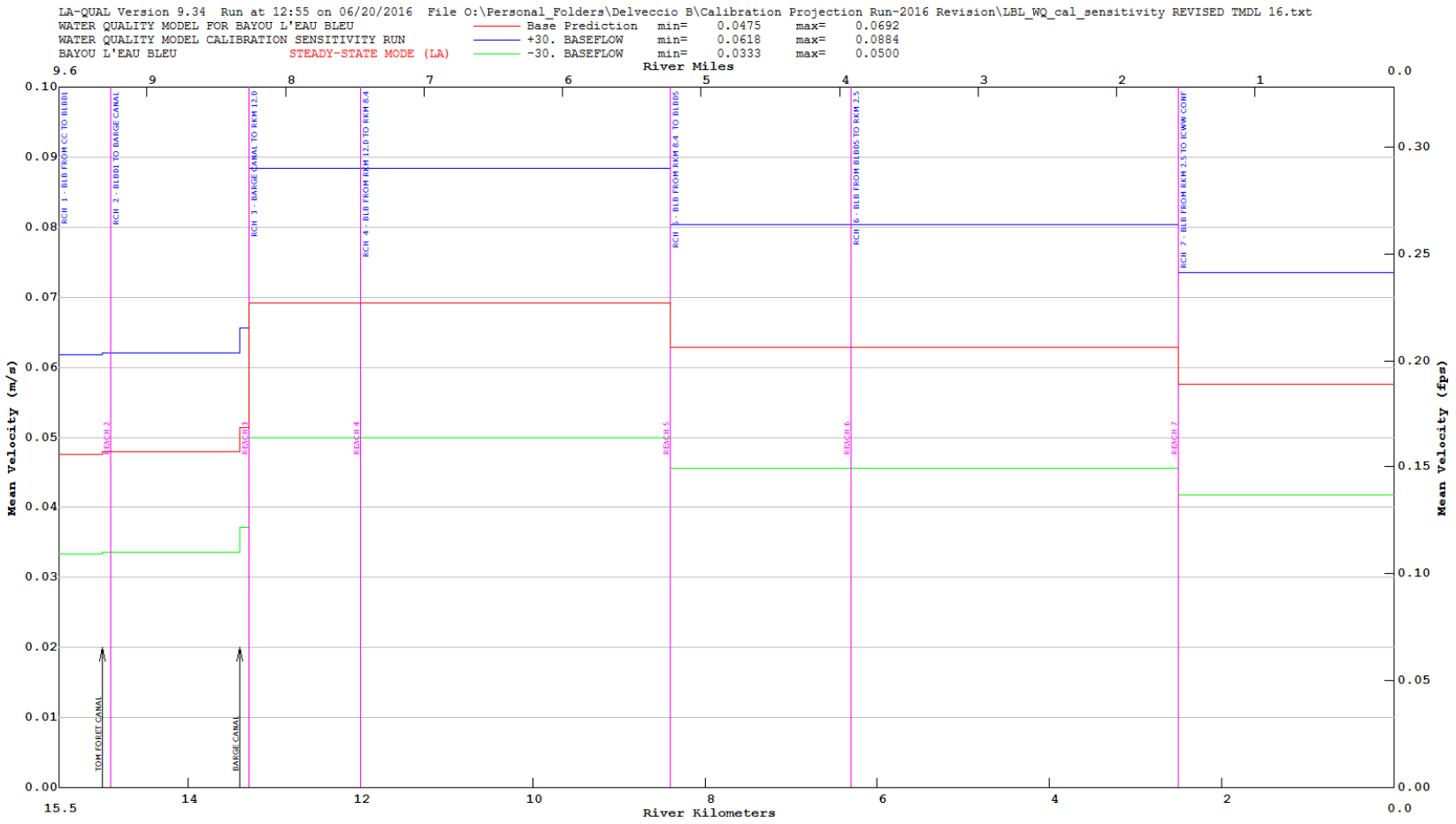

LA-QUAL Version 9.34 Run at 12:55 on 06/20/2016 File O:\Personal_Folders\Delveccio B\Calibration Projection Run-2016 Revision\LBL_WQ_cal_sensitivity REVISED TMDL 16.txt
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
Base Prediction min= 7.91 max= 18.36
+30. BASEFLOW min= 8.44 max= 17.77
-30. BASEFLOW min= 7.19 max= 19.38
River Miles
River Kilometers
Effective BOD1 (mg/L)
CC1
LB1
LB4
LB5
LB7
TOM FOREST CANAL
BARGE CANAL

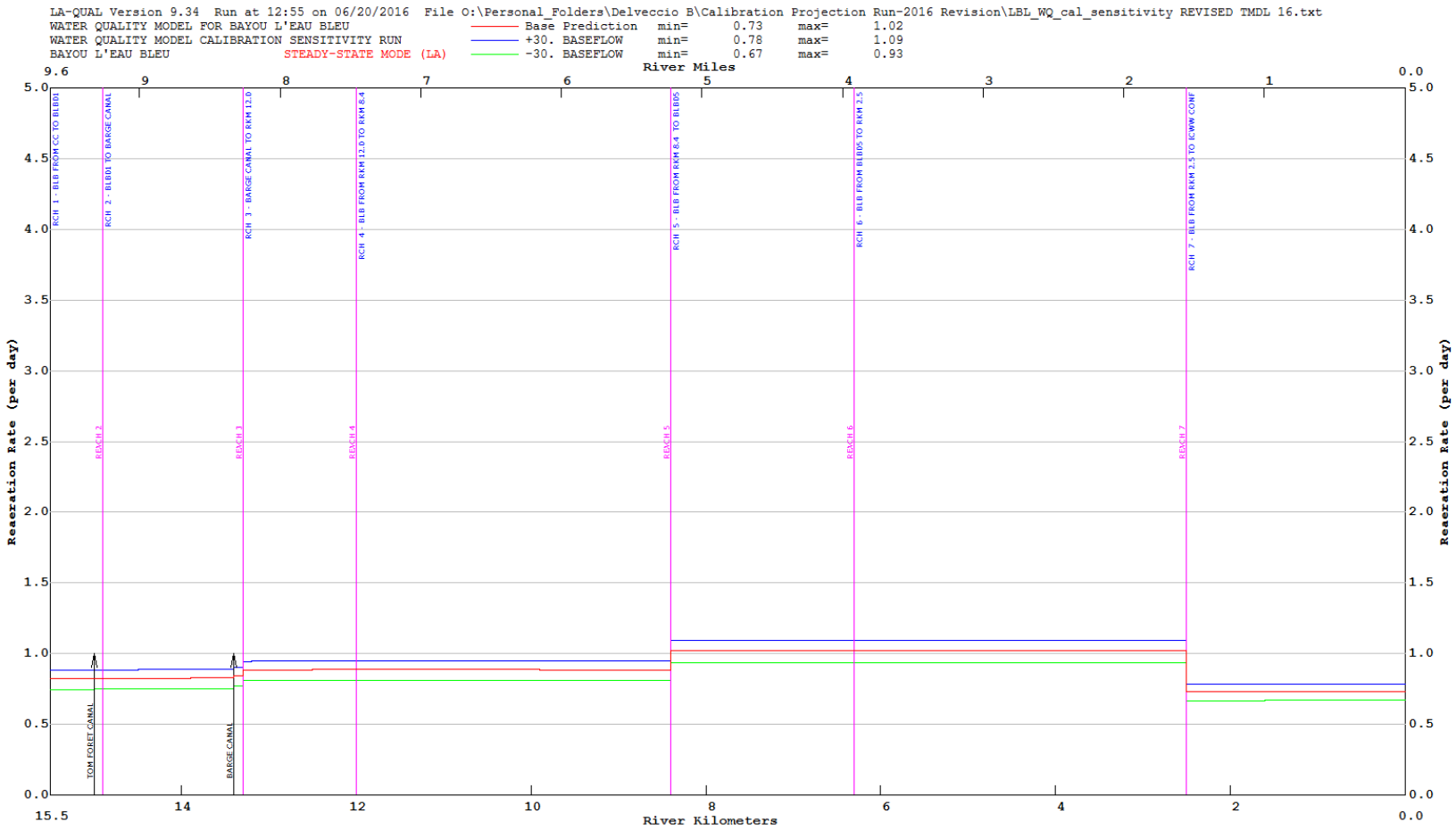

LA-QUAL Version 9.34 Run at 12:55 on 06/20/2016 File O:\Personal_Folders\Delveccio B\Calibration Projection Run-2016 Revision\LBL_WQ_cal_sensitivity REVISED TMDL 16.txt
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
Base Prediction min= 1.57 max= 4.85
+30. BASEFLOW min= 1.69 max= 4.61
-30. BASEFLOW min= 1.39 max= 5.25
River Miles
River Kilometers
Effective BOD2 (mg/L)
CC1
LB1
LB4
LB5
LB7
TOM FOREST CANAL
BARGE CANAL

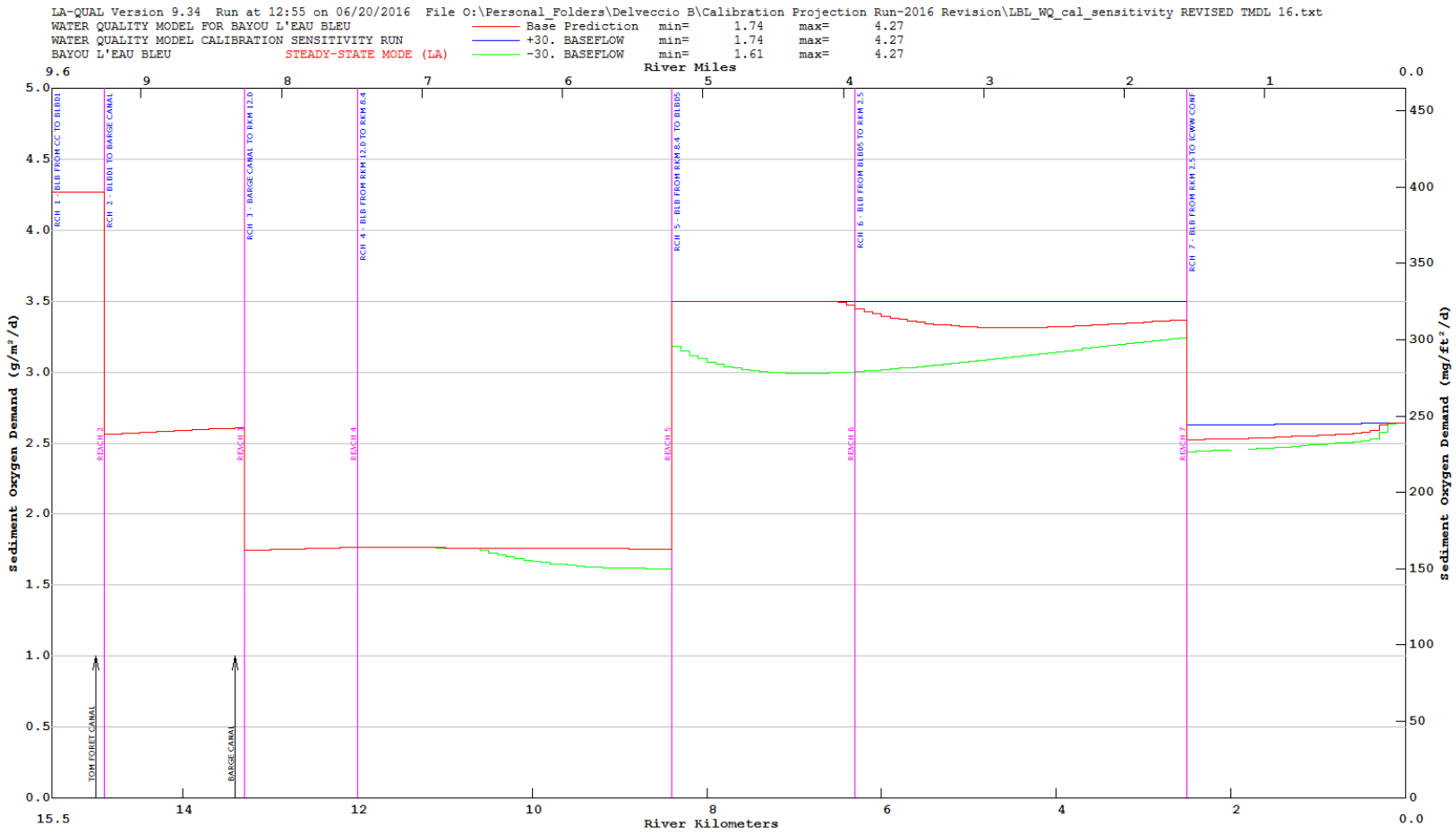

LA-QUAL Version 9.34 Run at 12:55 on 06/20/2016 File O:\Personal_Folders\Delveccio B\Calibration Projection Run-2016 Revision\LBL_WQ_cal_sensitivity REVISED TMDL 16.txt
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
Base Prediction min= 2.69 max= 5.05
+30. BASEFLOW min= 2.75 max= 4.74
-30. BASEFLOW min= 2.64 max= 5.60
River Miles
River Kilometers
Nitrogenous Oxygen Demand (mg/L)
CC1
LB1
LB4
LB5
LB7
TOM FOREST CANAL
BARGE CANAL


LA-QUAL Version 9.34 Run at 12:55 on 06/20/2016 File O:\Personal_Folders\Delveccio B\Calibration Projection Run-2016 Revision\LBL_WQ_cal_sensitivity REVISED TMDL 16.txt
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
Base Prediction min= 3.22 max= 3.48
+30. BASEFLOW min= 3.22 max= 4.45
-30. BASEFLOW min= 2.25 max= 3.22
River Miles
River Kilometers
Flow (m³/s)
Flow (cfs)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO IC/WW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FORET CANAL
BARGE CANAL


LA-QUAL Version 9.34 Run at 12:55 on 06/20/2016 File O:\Personal_Folders\Delveccio B\Calibration Projection Run-2016 Revision\LBL_WQ_cal_sensitivity REVISED TMDL 16.txt
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
Base Prediction min= 0.0475 max= 0.0692
+30. BASEFLOW min= 0.0618 max= 0.0884
-30. BASEFLOW min= 0.0333 max= 0.0500
River Miles
River Kilometers
Advective Velocity (m/s)
Advective Velocity (fps)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO IC/WW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FORET CANAL
BARGE CANAL


LA-QUAL Version 9.34 Run at 12:55 on 06/20/2016 File O:\Personal_Folders\Delveccio B\Calibration Projection Run-2016 Revision\LBL_WQ_cal_sensitivity REVISED TMDL 16.txt
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
Base Prediction min= 0.0475 max= 0.0692
+30. BASEFLOW min= 0.0618 max= 0.0884
-30. BASEFLOW min= 0.0333 max= 0.0500
River Miles
River Kilometers
Mean Velocity (m/s)
Mean Velocity (fps)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO ICWW CONF
REACH 1
REACH 2
REACH 4
REACH 5
REACH 6
REACH 7
TOM FORET CANAL
BARGE CANAL


LA-QUAL Version 9.34 Run at 12:55 on 06/20/2016 File O:\Personal_Folders\Delveccio B\Calibration Projection Run-2016 Revision\LBL_WQ_cal_sensitivity REVISED TMDL 16.txt
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
Base Prediction min= 0.73 max= 1.02
+30. BASEFLOW min= 0.78 max= 1.09
-30. BASEFLOW min= 0.67 max= 0.93
River Miles
River Kilometers
Reaeration Rate (per day)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO ICWW CONF
REACH 2
REACH 3
REACH 4
REACH 5
REACH 6
REACH 7
TOM FORET CANAL
BARGE CANAL


LA-QUAL Version 9.34 Run at 12:55 on 06/20/2016 File O:\Personal_Folders\Delveccio B\Calibration Projection Run-2016 Revision\LBL_WQ_cal_sensitivity REVISED TMDL 16.txt
WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN
BAYOU L'EAU BLEU
STEADY-STATE MODE (LA)
Base Prediction min= 1.74 max= 4.27
+30. BASEFLOW min= 1.74 max= 4.27
-30. BASEFLOW min= 1.61 max= 4.27
River Miles
River Kilometers
Sediment Oxygen Demand (g/m²/d)
Sediment Oxygen Demand (mg/ft²/d)
RCH 1 - BLB FROM CC TO BLB01
RCH 2 - BLB01 TO BARGE CANAL
RCH 3 - BARGE CANAL TO RKM 12.0
RCH 4 - BLB FROM RKM 12.0 TO RKM 8.4
RCH 5 - BLB FROM RKM 8.4 TO BLB05
RCH 6 - BLB FROM BLB05 TO RKM 2.5
RCH 7 - BLB FROM RKM 2.5 TO IGWW CONF
TOM FOBET CANAL
BARGE CANAL

Appendix I2 – Sensitivity Input and Output Data Set

BAYOU L'EAU BLEU 120303 Sensitivity Analysis Input Data Set

```
CNTROL01     WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
CNTROL02     WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN
CNTROL12 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CONDUCTIVITY               IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CHLORIDES                  IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06 YES BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT08  NO PHOSPHORUS
MODOPT09  NO CHLOROPHYLL A
MODOPT10  NO MACROPHYTES
MODOPT11  NO COLIFORM
MODOPT12  NO NONCONSERVATIVE MATERIAL
ENDATA02
PROGRAM  DISPERSION EQUATION                =     3.0
PROGRAM  TIDE HEIGHT                        =     0.063
PROGRAM  PERIOD OF TIDAL RISE               =     13.0
PROGRAM  K2 MAXIMUM                         =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD       =     2.
PROGRAM  SETTLING RATE UNITS                =     2.
PROGRAM  WIND VELOCITY                      =     0.68
PROGRAM  ALGAE OXYGEN PROD                  =     0.00
PROGRAM  KL MINIMUM                         =     0.70
PROGRAM  OCEAN EXCHANGE RATIO               =     1.0
PROGRAM  EFF BOD1                           =     0.0
PROGRAM  EFF BOD2                           =     0.0
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ********************************----------**********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID  1    LB BLB FROM CC TO BLB01                15.50      14.90    0.100
REACH ID  2    LB BLB01 TO BARGE CANAL                14.90      13.30    0.100
REACH ID  3    LB BARGE CANAL TO RKM 12.0             13.30      12.00    0.100
REACH ID  4    LB BLB FROM RKM 12.0 TO RKM 8.4        12.00       8.40    0.100
REACH ID  5    LB BLB FROM RKM 8.4  TO BLB05           8.40       6.30    0.100
REACH ID  6    LB BLB FROM BLB05 TO RKM 2.5            6.30       2.50    0.100
REACH ID  7    LB BLB FROM RKM 2.5 TO ICWW CONF        2.50       0.00    0.100
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
!Reach 1 - BLB-02
HYDR-1      1   0.0    0.0    55.50  0.0    0.00    1.22          0.030
!REACH 2 - BLB-02
HYDR-1      2   0.0    0.0    55.50  0.0    0.00    1.22          0.030
!REACH 3 - BLB-04
HYDR-1      3   0.0    0.0    39.60  0.0    0.00    1.27          0.030
!REACH 4 - BLB-04
HYDR-1      4   0.0    0.0    39.60  0.0    0.00    1.27          0.030
!REACH 5 - BLB-05
HYDR-1      5   0.0    0.0    52.70  0.0    0.00    1.05          0.030
!REACH 6 - BLB-05
HYDR-1      6   0.0    0.0    52.70  0.0    0.00    1.05          0.030
!REACH 7 - BLB-07
```

```
HYDR-1      7   0.0    0.0    40.54  0.0    0.00    1.49          0.030
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
HYDR-2      1  1.00   23.000   0.833    0.0       1.0
HYDR-2      2  1.00   23.000   0.833    0.0       1.0
HYDR-2      3  1.00   23.000   0.833    0.0       1.0
HYDR-2      4  1.00   23.000   0.833    0.0       1.0
HYDR-2      5  1.00   23.000   0.833    0.0       1.0
HYDR-2      6  1.00   23.000   0.833    0.0       1.0
HYDR-2      7  1.00   23.000   0.833    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO                            CHL A   MACROPHYTES
!Normally when the chlorophyll a values are high and there is a DO swing in the continuous
!monitors of more than 2 mg/l, modeling to (DO min + 1) is the norm.  For this survey, only
!2 continuous monitors were working for Bayou L'Eau Bleu mainstem.  The (DO min + 1) values
!for these monitors were very close to the insitu readings taken at the sample times.  Therefore,
!to be consistent with the sites that did not have continuous monitors, the insitu readings
!taken at the sample times will be used for all sites.
!REACH 1 INSITU AVG (CC-01 + BLB-01) FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-01
INITIAL     1      28.5    0.09   4.91                           92.2   0.00
!REACH 2 INSITU BLB-01 FOR ALL PARAMETERS
INITIAL     2      28.5    0.09   4.44                           92.2   0.00
!REACH 3 INSITU AVG (BLB-01 + BLB-04) FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-01
INITIAL     3      28.8    0.09   3.64                           92.2   0.00
!REACH 4 INSITU BLB-04 FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-01
INITIAL     4      29.0    0.09   2.83                           92.2   0.00
!REACH 5 INSITU BLB-05 FOR ALL PARAMETERS
INITIAL     5      28.9    0.09   1.91                           87.8   0.00
!REACH 6 INSITU AVG (BLB-05 + BLB-07) FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-05
INITIAL     6      28.9    0.12   1.94                           87.8   0.00
!REACH 7 INSITU BLB-07 FOR ALL PARAMETERS EXCEPT CHLOROPHYLL A
!CHLOROPHYLL A - BLB-05
INITIAL     7      28.9    0.14   1.96                           87.8   0.00
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0123456789 0
!         ***  -----******----- ******-------*******-------*******-------*******-------***
!Texas equation was determined to be most suitable for this model.
!Settling rates were determined by calibration.
!Decay rate is the average decay rate of BLB-01, BLB-04, BLB-05, BLB-07
!              REA                          BOD 1  BOD 1 BOD1SET       BOD 2    BOD 2 BOD2SET
!          R#  EQ                       SOD  DECAY  SETT   TO SOD       DECAY    SETT   TO SOD
COEF-1      1   11.0                     2.50  0.120   0.40                0.037   0.20
COEF-1      2   11.0                     1.50  0.120   0.20                0.037   0.20
COEF-1      3   11.0                     1.00  0.120   0.20                0.037   0.20
COEF-1      4   11.0                     1.00  0.120   0.20                0.037   0.20
COEF-1      5   11.0                     2.00  0.120   0.20                0.037   0.20
COEF-1      6   11.0                     2.00  0.120   0.20                0.037   0.50
COEF-1      7   11.0                     1.50  0.120   0.20                0.037   0.50
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
!Decay rate is the average decay rate of BLB-01, BLB-04, BLB-05, BLB-07
```

```
!Settling rates were determined by calibration.
COEF-2      1    0.118   0.10
COEF-2      2    0.118   0.10
COEF-2      3    0.118   0.10
COEF-2      4    0.118   0.10
COEF-2      5    0.118   0.10
COEF-2      6    0.118   0.20
COEF-2      7    0.118   0.20
ENDATA13
ENDATA14
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#      DO    CBOD       NBOD
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********
!          R#             CHL A
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1        0.0     50.0      0.0     00.0      0.0    150.0
NONPOINT    2     1300.0    300.0      0.0     00.0      0.0    250.0
NONPOINT    3     1100.0    350.0      0.0     00.0      0.0    250.0
NONPOINT    4      700.0     10.0      0.0     00.0      0.0     80.0
NONPOINT    5      100.0     30.0      0.0     00.0      0.0    100.0
NONPOINT    6      300.0     20.0      0.0     00.0      0.0    150.0
NONPOINT    7      300.0     75.0      0.0     00.0      0.0    150.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   COND    CHLORIDES   HDWTR XCHANGE
! The headwater flow was assumed to be 93% of the flow calculated from the dye study
! (3.48 cms) minus the flow from Tom Foret Canal.
! All other measurements are the average CC-01 and CC-02.
! Moved Headwter exchange from Data Type 3 to Data Type 20 3/1/16
HDWTR-1     1  BAYOU L'EAU BLEU          3.2168   28.80   0.09   193.0      13.4      1.0
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------*********---------*********---------*********
!          E#      DO      BOD 1    NBOD                      BOD 2
! All measurements are the average CC-01 and CC-02.
HDWTR-2     1     5.12     15.56    3.58                      3.63
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------*********---------*********
!          E#             CHL A
! This measurement is CC-02 because no chlorophyll a for CC-01.
HDWTR-3     1             108.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
```

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------*********---------*********---------*********
!          E#     NAME               FLOW      TEMP   SALINITY   COND  CHLORIDES
! Assumed flow for Tom Foret Canal to be the average flow for the Lockport STP
! for the months of June 2004 and July 2004.  0.482 mgd = 0.0211 cms
! All other measurements are from site TFC-01.
WSTLD-1     6  TOM FORET CANAL       0.0211    29.00     0.13    277.0    18.6
! The headwater flow was assumed to be 7% of the flow calculated from the dye study
! (3.48 cms) minus the flow from Tom Foret Canal.
! All other measurements are from CC-02.
WSTLD-1    22  BARGE CANAL           0.2421    28.7      0.08    184.0    13.5
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------*********-----*********---------*****---------*********
!          E#       DO    BOD 1         NBOD                            BOD 2
! All measurements are from site TFC-01.
WSTLD-2     6      2.91   7.43          4.64                            3.67
! All other measurements are from CC-02.
WSTLD-2    22      4.87  16.89          4.13                            3.66
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------*********---------*********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
! No measurement taken.
WSTLD-3     6
! All measurements are from CC-02.
WSTLD-3    22            108.0
ENDATA26
! All measurements are from ICWW-01 except Chlorophyll a
! No measurement taken on ICWW so BLB-05 used for Chlorophyll a.
LOWER BC TEMPERATURE                        =  29.00
LOWER BC SALINITY                           =   0.13
LOWER BC CONSERVATIVE MATERIAL I            = 271.00
LOWER BC CONSERVATIVE MATERIAL II           =  32.50
LOWER BC DISSOLVED OXYGEN                   =   3.71
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =   4.41
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =   0.00
LOWER BC CHLOROPHYLL A                      =   87.8
LOWER BC NBOD                               =   2.54
ENDATA27
ENDATA28
SENSITIV BASEFLOW   30    -30
SENSITIV CHLOR A    30    -30
SENSITIV VELOCITY   30    -30
SENSITIV TEMPERAT    2     -2
SENSITIV BOD1 DEC   30    -30
SENSITIV BOD2 DEC   30    -30
SENSITIV BOD1 SET   30    -30
SENSITIV BOD2 SET   30    -30
SENSITIV NBOD DEC   30    -30
SENSITIV NBOD SET   30    -30
SENSITIV SOD        30    -30
SENSITIV DISPERSI   30    -30
SENSITIV REAERATI   30    -30
SENSITIV HDW FLOW   30    -30
SENSITIV HDW DO     30    -30
SENSITIV HDW BOD1   30    -30
SENSITIV HDW BOD2   30    -30
SENSITIV HDW NBOD   30    -30
SENSITIV DEPTH      30    -30
SENSITIV WSL FLOW   30    -30
SENSITIV WSL TEMP    2     -2
SENSITIV WSL DO     30    -30
SENSITIV WSL BOD1   30    -30
SENSITIV WSL BOD2   30    -30
SENSITIV WSL NBOD   30    -30
```

```
SENSITIV LBC TEMP    2     -2
SENSITIV LBC DO     30    -30
SENSITIV LBC BOD1   30    -30
SENSITIV LBC BOD2   30    -30
SENSITIV LBC NBOD   30    -30
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  5  6  7
ENDATA30
OVERLAY 1 OPDATA_1.TXT                      BAYOU L'EAU BLEU MAINSTEM
ENDATA31
```

BAYOU L'EAU BLEU 120303 Sensitivity Analysis Output Dataset

```
 LA-QUAL Version 9.34
Louisiana Department of Environmental Quality

Input file is O:\Personal_Folders\Delveccio B\Calibration Projection Run-2016 Revision\LBL_WQ_cal_sensitivity REVISED TMDL 16.txt
Running in steady-state mode using LA defaults
Output produced at 07:50 on 06/30/2016

 WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
 WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN

 <Notice: Deprecated overlay method is being used>

   LBC                            87.8   4.41   4.41   0.00   0.00   2.54   2.54   0.00   0.00


     .....NO FATAL ERRORS DETECTED IN INPUT DATA
     .....MODEL CONTAINS   1 HEADWATERS,   7 REACHES,    0 DAMS,  155 ELEMENTS, AND   2 WASTELOADS
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11


FINAL REPORT    BAYOU L'EAU BLEU                                WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO.  1    BLB FROM CC TO BLB01                            WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN

 ******************************************************************************** INPUTS FOR REACH   1 ********************************************************************************************

 ELEM  TYPE          FLOW        FLOW    TEMP     SALN     CM-1     CM-2     DO   BOD1   BOD2  EBOD1  EBOD2  ORG-N  NH3-N  NO3-N  PO4-P  CHL A     COLI     NCM
  NO.                m³/s         cfs   deg C      ppt     MG/L     MG/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

    1  HDWTR       3.21680   113.59960   28.80     0.09   193.00    13.40   5.12  15.56   3.63  15.56   3.63   3.58   0.00   0.00   0.00 108.00     0.00    0.00
    6  WSTLD       0.02110     0.74514   29.00     0.13   277.00    18.60   2.91   7.43   3.67   7.43   3.67   4.64   0.00   0.00   0.00   0.00     0.00    0.00

 ********************************************************************** HYDRAULIC PARAMETER VALUES FOR REACH   1 **********************************************************************

 ELEM   BEGIN  ENDING     ADVCTV     ADVCTV   PCT      ADVCTV   TRAVEL      CUM   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL     TIDAL   DISPRSN      MEAN      EVAP
  NO.    DIST    DIST       FLOW       FLOW   EFF        VELO     TIME     TIME                                 AREA    AREA     PRISM      VELO                 VELO
           km      km       m³/s        cfs               m/s     days     days       m       m        m³         m²      m²        m³       m/s      m²/s       m/s      m³/s

    1   15.50   15.40    3.21680  113.59960   0.0    0.047508     0.02     0.02    1.22   55.50    6771.0     5550.0    67.7      350.  0.000115     1.290  0.047508 0.0000000
    2   15.40   15.30    3.21680  113.59960   0.0    0.047508     0.02     0.05    1.22   55.50    6771.0     5550.0    67.7      699.  0.000230     1.290  0.047508 0.0000000
    3   15.30   15.20    3.21680  113.59960   0.0    0.047508     0.02     0.07    1.22   55.50    6771.0     5550.0    67.7     1049.  0.000344     1.290  0.047508 0.0000000
    4   15.20   15.10    3.21680  113.59960   0.0    0.047508     0.02     0.10    1.22   55.50    6771.0     5550.0    67.7     1399.  0.000459     1.290  0.047508 0.0000000
    5   15.10   15.00    3.21680  113.59960   0.0    0.047508     0.02     0.12    1.22   55.50    6771.0     5550.0    67.7     1748.  0.000574     1.290  0.047508 0.0000000
    6   15.00   14.90    3.23790  114.34474   0.7    0.047820     0.02     0.15    1.22   55.50    6771.0     5550.0    67.7     2098.  0.000689     1.298  0.047820 0.0000000

  TOT                                                            0.15                            40626.0    33300.0                                                 0.0000000
  AVG                                                   0.047560                      1.22   55.50                        67.7


 ************************************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH   1 **************************************************************

 ELEM  ENDING   SAT  REAER  BOD1  BOD1 ABOD1  BOD1  BOD2  BOD2 ABOD2  BKGD  FULL  CORR ORG-N ORG-N NH3-N NH3-N DENIT ORG-P ORG-P   PO4 PHYTO PERIP  COLI   NCM   NCM
 NO.     DIST  D.O.   RATE DECAY  SETT DECAY  HYDR DECAY  SETT DECAY   SOD   SOD   SOD  HYDR  SETT DECAY  SRCE  RATE  HYDR  SETT  SRCE  PROD  PROD DECAY DECAY  SETT
             mg/L   1/da  1/da  1/da  1/da  1/da  1/da  1/da  1/da    *     *     *   1/da  1/da  1/da    *   1/da  1/da  1/da    *    **    **   1/da  1/da  1/da
```

1	15.400	7.75	0.82	0.18	0.49	0.00	0.00	0.05	0.24	0.00	4.27	4.27	4.27	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	15.300	7.75	0.82	0.18	0.49	0.00	0.00	0.05	0.24	0.00	4.27	4.27	4.27	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	15.200	7.75	0.82	0.18	0.49	0.00	0.00	0.05	0.24	0.00	4.27	4.27	4.27	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	15.100	7.75	0.82	0.18	0.49	0.00	0.00	0.05	0.24	0.00	4.27	4.27	4.27	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	15.000	7.75	0.82	0.18	0.49	0.00	0.00	0.05	0.24	0.00	4.27	4.27	4.27	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	14.900	7.75	0.82	0.18	0.49	0.00	0.00	0.05	0.24	0.00	4.27	4.27	4.27	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.70	0.12	0.40	0.00	0.00	0.04	0.20	0.00	2.50			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 1 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
1	15.400	28.50	0.09	193.00	13.40	5.02	15.36	3.68	15.36	3.68	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
2	15.300	28.50	0.09	193.00	13.40	4.91	15.11	3.74	15.11	3.74	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
3	15.200	28.50	0.09	193.01	13.40	4.80	14.87	3.81	14.87	3.81	3.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
4	15.100	28.50	0.09	193.02	13.40	4.69	14.64	3.87	14.64	3.87	3.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
5	15.000	28.50	0.09	193.12	13.41	4.58	14.41	3.93	14.41	3.93	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
6	14.900	28.50	0.09	193.55	13.43	4.48	14.23	3.98	14.23	3.98	3.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 1 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
1	15.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
2	15.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
3	15.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
4	15.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
5	15.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
6	14.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 2 BLB01 TO BARGE CANAL WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN

********** INPUTS FOR REACH 2 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
7	UPR RCH	3.23790	114.34474	28.50	0.09	193.55	13.43	4.48	14.23	3.98	14.23	3.98	3.61	0.00	0.00	0.00	92.20	0.00	0.00
22	WSTLD	0.24210	8.54963	28.70	0.08	184.00	13.50	4.87	16.89	3.66	16.89	3.66	4.13	0.00	0.00	0.00	108.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 2 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
7	14.90	14.80	3.23790	114.34474	0.7	0.047820	0.02	0.17	1.22	55.50	6771.0	5550.0	67.7	2448.	0.000803	1.298	0.047820	0.0000000
8	14.80	14.70	3.23790	114.34474	0.7	0.047820	0.02	0.19	1.22	55.50	6771.0	5550.0	67.7	2797.	0.000918	1.298	0.047820	0.0000000
9	14.70	14.60	3.23790	114.34474	0.7	0.047820	0.02	0.22	1.22	55.50	6771.0	5550.0	67.7	3147.	0.001033	1.298	0.047820	0.0000000
10	14.60	14.50	3.23790	114.34474	0.7	0.047820	0.02	0.24	1.22	55.50	6771.0	5550.0	67.7	3496.	0.001148	1.298	0.047820	0.0000000
11	14.50	14.40	3.23790	114.34474	0.7	0.047820	0.02	0.27	1.22	55.50	6771.0	5550.0	67.7	3846.	0.001262	1.298	0.047820	0.0000000

12	14.40	14.30	3.23790	114.34474	0.7	0.047820	0.02	0.29	1.22	55.50	6771.0	5550.0	67.7	4196.	0.001377	1.298	0.047820	0.0000000
13	14.30	14.20	3.23790	114.34474	0.7	0.047820	0.02	0.32	1.22	55.50	6771.0	5550.0	67.7	4545.	0.001492	1.298	0.047820	0.0000000
14	14.20	14.10	3.23790	114.34474	0.7	0.047820	0.02	0.34	1.22	55.50	6771.0	5550.0	67.7	4895.	0.001607	1.298	0.047820	0.0000000
15	14.10	14.00	3.23790	114.34474	0.7	0.047820	0.02	0.36	1.22	55.50	6771.0	5550.0	67.7	5245.	0.001721	1.298	0.047820	0.0000000
16	14.00	13.90	3.23790	114.34474	0.7	0.047820	0.02	0.39	1.22	55.50	6771.0	5550.0	67.7	5594.	0.001836	1.298	0.047820	0.0000000
17	13.90	13.80	3.23790	114.34474	0.7	0.047820	0.02	0.41	1.22	55.50	6771.0	5550.0	67.7	5944.	0.001951	1.298	0.047820	0.0000000
18	13.80	13.70	3.23790	114.34474	0.7	0.047820	0.02	0.44	1.22	55.50	6771.0	5550.0	67.7	6294.	0.002066	1.298	0.047820	0.0000000
19	13.70	13.60	3.23790	114.34474	0.7	0.047820	0.02	0.46	1.22	55.50	6771.0	5550.0	67.7	6643.	0.002180	1.298	0.047820	0.0000000
20	13.60	13.50	3.23790	114.34474	0.7	0.047820	0.02	0.48	1.22	55.50	6771.0	5550.0	67.7	6993.	0.002295	1.298	0.047820	0.0000000
21	13.50	13.40	3.23790	114.34474	0.7	0.047820	0.02	0.51	1.22	55.50	6771.0	5550.0	67.7	7343.	0.002410	1.298	0.047820	0.0000000
22	13.40	13.30	3.48000	122.89438	7.6	0.051396	0.02	0.53	1.22	55.50	6771.0	5550.0	67.7	7692.	0.002525	1.395	0.051396	0.0000000
TOT							0.39				108336.0	88800.0						0.0000000
AVG						0.048029			1.22	55.50			67.7					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 2 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
7	14.800	7.75	0.82	0.18	0.24	0.00	0.00	0.05	0.24	0.00	2.56	2.56	2.56	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	14.700	7.75	0.82	0.18	0.24	0.00	0.00	0.05	0.24	0.00	2.57	2.57	2.57	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	14.600	7.75	0.82	0.18	0.24	0.00	0.00	0.05	0.24	0.00	2.57	2.57	2.57	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	14.500	7.74	0.82	0.18	0.25	0.00	0.00	0.05	0.25	0.00	2.57	2.57	2.57	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	14.400	7.74	0.82	0.18	0.25	0.00	0.00	0.05	0.25	0.00	2.58	2.58	2.58	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	14.300	7.74	0.82	0.18	0.25	0.00	0.00	0.05	0.25	0.00	2.58	2.58	2.58	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	14.200	7.74	0.82	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.58	2.58	2.58	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14.100	7.73	0.82	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.59	2.59	2.59	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	14.000	7.73	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.59	2.59	2.59	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	13.900	7.73	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.59	2.59	2.59	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	13.800	7.73	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.60	2.60	2.60	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	13.700	7.72	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.60	2.60	2.60	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	13.600	7.72	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.60	2.60	2.60	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	13.500	7.72	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.60	2.60	2.60	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	13.400	7.72	0.83	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.61	2.61	2.61	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	13.300	7.71	0.84	0.18	0.25	0.00	0.00	0.06	0.25	0.00	2.61	2.61	2.61	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.70	0.12	0.20	0.00	0.00	0.04	0.20	0.00	1.50			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 2 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
7	14.800	28.52	0.09	193.55	13.43	4.41	14.37	4.01	14.37	4.01	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
8	14.700	28.54	0.09	193.55	13.43	4.35	14.51	4.03	14.51	4.03	3.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
9	14.600	28.56	0.09	193.55	13.43	4.28	14.65	4.06	14.65	4.06	3.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
10	14.500	28.58	0.09	193.55	13.43	4.21	14.79	4.08	14.79	4.08	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
11	14.400	28.59	0.09	193.55	13.43	4.15	14.93	4.11	14.93	4.11	3.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
12	14.300	28.61	0.09	193.55	13.43	4.08	15.06	4.14	15.06	4.14	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
13	14.200	28.63	0.09	193.55	13.43	4.01	15.20	4.16	15.20	4.16	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
14	14.100	28.65	0.09	193.55	13.43	3.95	15.33	4.19	15.33	4.19	3.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
15	14.000	28.67	0.09	193.55	13.43	3.89	15.46	4.21	15.46	4.21	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
16	13.900	28.69	0.09	193.55	13.43	3.82	15.59	4.24	15.59	4.24	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
17	13.800	28.71	0.09	193.55	13.43	3.76	15.72	4.26	15.72	4.26	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
18	13.700	28.72	0.09	193.55	13.43	3.70	15.85	4.29	15.85	4.29	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
19	13.600	28.74	0.09	193.54	13.43	3.63	15.97	4.31	15.97	4.31	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
20	13.500	28.76	0.09	193.52	13.43	3.57	16.10	4.33	16.10	4.33	4.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
21	13.400	28.78	0.09	193.40	13.43	3.53	16.23	4.35	16.23	4.35	4.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
22	13.300	28.80	0.09	192.88	13.44	3.55	16.39	4.34	16.39	4.34	4.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 2 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
7	14.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
8	14.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
9	14.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
10	14.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
11	14.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
12	14.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
13	14.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
14	14.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
15	14.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
16	13.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
17	13.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
18	13.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
19	13.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20	13.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
21	13.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
22	13.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 3 BARGE CANAL TO RKM 12.0 WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN

********** INPUTS FOR REACH 3 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
23	UPR RCH	3.48000	122.89438	28.80	0.09	192.88	13.44	3.55	16.39	4.34	16.39	4.34	4.22	0.00	0.00	0.00	92.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 3 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
23	13.30	13.20	3.48000	122.89438	7.6	0.069196	0.02	0.55	1.27	39.60	5029.2	3960.0	50.3	7942.	0.003509	1.942	0.069196	0.0000000
24	13.20	13.10	3.48000	122.89438	7.6	0.069196	0.02	0.57	1.27	39.60	5029.2	3960.0	50.3	8191.	0.003619	1.942	0.069196	0.0000000
25	13.10	13.00	3.48000	122.89438	7.6	0.069196	0.02	0.58	1.27	39.60	5029.2	3960.0	50.3	8441.	0.003730	1.942	0.069196	0.0000000
26	13.00	12.90	3.48000	122.89438	7.6	0.069196	0.02	0.60	1.27	39.60	5029.2	3960.0	50.3	8690.	0.003840	1.942	0.069196	0.0000000
27	12.90	12.80	3.48000	122.89438	7.6	0.069196	0.02	0.62	1.27	39.60	5029.2	3960.0	50.3	8940.	0.003950	1.942	0.069196	0.0000000
28	12.80	12.70	3.48000	122.89438	7.6	0.069196	0.02	0.63	1.27	39.60	5029.2	3960.0	50.3	9189.	0.004060	1.942	0.069196	0.0000000
29	12.70	12.60	3.48000	122.89438	7.6	0.069196	0.02	0.65	1.27	39.60	5029.2	3960.0	50.3	9439.	0.004171	1.942	0.069196	0.0000000
30	12.60	12.50	3.48000	122.89438	7.6	0.069196	0.02	0.67	1.27	39.60	5029.2	3960.0	50.3	9688.	0.004281	1.942	0.069196	0.0000000
31	12.50	12.40	3.48000	122.89438	7.6	0.069196	0.02	0.68	1.27	39.60	5029.2	3960.0	50.3	9938.	0.004391	1.942	0.069196	0.0000000
32	12.40	12.30	3.48000	122.89438	7.6	0.069196	0.02	0.70	1.27	39.60	5029.2	3960.0	50.3	10187.	0.004501	1.942	0.069196	0.0000000
33	12.30	12.20	3.48000	122.89438	7.6	0.069196	0.02	0.72	1.27	39.60	5029.2	3960.0	50.3	10437.	0.004612	1.942	0.069196	0.0000000
34	12.20	12.10	3.48000	122.89438	7.6	0.069196	0.02	0.73	1.27	39.60	5029.2	3960.0	50.3	10686.	0.004722	1.942	0.069196	0.0000000
35	12.10	12.00	3.48000	122.89438	7.6	0.069196	0.02	0.75	1.27	39.60	5029.2	3960.0	50.3	10936.	0.004832	1.942	0.069196	0.0000000
TOT							0.22				65379.6	51480.0						0.0000000
AVG						0.069196			1.27	39.60			50.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 3 **********

ELEM	ENDING	SAT	REAER	BOD1	BOD1	ABOD1	BOD1	BOD2	BOD2	ABOD2	BKGD	FULL	CORR	ORG-N	ORG-N	NH3-N	NH3-N	DENIT	ORG-P	ORG-P	PO4	PHYTO	PERIP	COLI	NCM	NCM

NO.	DIST	D.O. mg/L	RATE 1/da	DECAY 1/da	SETT 1/da	DECAY 1/da	HYDR 1/da	DECAY 1/da	SETT 1/da	DECAY 1/da	SOD *	SOD *	SOD *	HYDR 1/da	SETT 1/da	DECAY 1/da	SRCE *	RATE 1/da	HYDR 1/da	SETT 1/da	SRCE *	PROD **	PROD **	DECAY 1/da	DECAY 1/da	SETT 1/da
23	13.200	7.71	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.74	1.74	1.74	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	13.100	7.71	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.74	1.74	1.74	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	13.000	7.71	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	12.900	7.71	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	12.800	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	12.700	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	12.600	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	12.500	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	12.400	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	12.300	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	12.200	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	12.100	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	12.000	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.75	0.12	0.20	0.00	0.00	0.04	0.20	0.00	1.00			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 3 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
23	13.200	28.82	0.09	192.88	13.44	3.52	16.56	4.38	16.56	4.38	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
24	13.100	28.83	0.09	192.88	13.44	3.50	16.72	4.42	16.72	4.42	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
25	13.000	28.85	0.09	192.88	13.44	3.47	16.88	4.46	16.88	4.46	4.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
26	12.900	28.86	0.09	192.88	13.44	3.44	17.04	4.50	17.04	4.50	4.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
27	12.800	28.88	0.09	192.88	13.44	3.41	17.20	4.55	17.20	4.55	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
28	12.700	28.89	0.09	192.88	13.44	3.38	17.35	4.59	17.35	4.59	4.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
29	12.600	28.91	0.09	192.88	13.44	3.35	17.51	4.63	17.51	4.63	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
30	12.500	28.92	0.09	192.88	13.44	3.32	17.66	4.67	17.66	4.67	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
31	12.400	28.94	0.09	192.88	13.44	3.29	17.82	4.71	17.82	4.71	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
32	12.300	28.95	0.09	192.88	13.44	3.26	17.97	4.75	17.97	4.75	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
33	12.200	28.97	0.09	192.88	13.44	3.23	18.12	4.79	18.12	4.79	4.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
34	12.100	28.98	0.09	192.88	13.44	3.20	18.26	4.82	18.26	4.82	5.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00
35	12.000	29.00	0.09	192.88	13.44	3.16	18.36	4.85	18.36	4.85	5.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.2	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 3 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
23	13.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
24	13.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
25	13.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
26	12.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
27	12.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
28	12.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
29	12.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
30	12.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
31	12.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
32	12.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
33	12.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
34	12.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
35	12.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 4 BLB FROM RKM 12.0 TO RKM 8.4 WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN

********** INPUTS FOR REACH 4 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
36	UPR RCH	3.48000	122.89438	29.00	0.09	192.88	13.44	3.16	18.36	4.85	18.36	4.85	5.05	0.00	0.00	0.00	92.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 4 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
36	12.00	11.90	3.48000	122.89438	7.6	0.069196	0.02	0.77	1.27	39.60	5029.2	3960.0	50.3	11185.	0.004942	1.942	0.069196	0.0000000
37	11.90	11.80	3.48000	122.89438	7.6	0.069196	0.02	0.78	1.27	39.60	5029.2	3960.0	50.3	11435.	0.005052	1.942	0.069196	0.0000000
38	11.80	11.70	3.48000	122.89438	7.6	0.069196	0.02	0.80	1.27	39.60	5029.2	3960.0	50.3	11684.	0.005163	1.942	0.069196	0.0000000
39	11.70	11.60	3.48000	122.89438	7.6	0.069196	0.02	0.82	1.27	39.60	5029.2	3960.0	50.3	11933.	0.005273	1.942	0.069196	0.0000000
40	11.60	11.50	3.48000	122.89438	7.6	0.069196	0.02	0.83	1.27	39.60	5029.2	3960.0	50.3	12183.	0.005383	1.942	0.069196	0.0000000
41	11.50	11.40	3.48000	122.89438	7.6	0.069196	0.02	0.85	1.27	39.60	5029.2	3960.0	50.3	12432.	0.005493	1.942	0.069196	0.0000000
42	11.40	11.30	3.48000	122.89438	7.6	0.069196	0.02	0.87	1.27	39.60	5029.2	3960.0	50.3	12682.	0.005604	1.942	0.069196	0.0000000
43	11.30	11.20	3.48000	122.89438	7.6	0.069196	0.02	0.88	1.27	39.60	5029.2	3960.0	50.3	12931.	0.005714	1.942	0.069196	0.0000000
44	11.20	11.10	3.48000	122.89438	7.6	0.069196	0.02	0.90	1.27	39.60	5029.2	3960.0	50.3	13181.	0.005824	1.942	0.069196	0.0000000
45	11.10	11.00	3.48000	122.89438	7.6	0.069196	0.02	0.92	1.27	39.60	5029.2	3960.0	50.3	13430.	0.005934	1.942	0.069196	0.0000000
46	11.00	10.90	3.48000	122.89438	7.6	0.069196	0.02	0.93	1.27	39.60	5029.2	3960.0	50.3	13680.	0.006045	1.942	0.069196	0.0000000
47	10.90	10.80	3.48000	122.89438	7.6	0.069196	0.02	0.95	1.27	39.60	5029.2	3960.0	50.3	13929.	0.006155	1.942	0.069196	0.0000000
48	10.80	10.70	3.48000	122.89438	7.6	0.069196	0.02	0.97	1.27	39.60	5029.2	3960.0	50.3	14179.	0.006265	1.942	0.069196	0.0000000
49	10.70	10.60	3.48000	122.89438	7.6	0.069196	0.02	0.98	1.27	39.60	5029.2	3960.0	50.3	14428.	0.006375	1.942	0.069196	0.0000000
50	10.60	10.50	3.48000	122.89438	7.6	0.069196	0.02	1.00	1.27	39.60	5029.2	3960.0	50.3	14678.	0.006486	1.942	0.069196	0.0000000
51	10.50	10.40	3.48000	122.89438	7.6	0.069196	0.02	1.02	1.27	39.60	5029.2	3960.0	50.3	14927.	0.006596	1.942	0.069196	0.0000000
52	10.40	10.30	3.48000	122.89438	7.6	0.069196	0.02	1.03	1.27	39.60	5029.2	3960.0	50.3	15177.	0.006706	1.942	0.069196	0.0000000
53	10.30	10.20	3.48000	122.89438	7.6	0.069196	0.02	1.05	1.27	39.60	5029.2	3960.0	50.3	15426.	0.006816	1.942	0.069196	0.0000000
54	10.20	10.10	3.48000	122.89438	7.6	0.069196	0.02	1.07	1.27	39.60	5029.2	3960.0	50.3	15676.	0.006927	1.942	0.069196	0.0000000
55	10.10	10.00	3.48000	122.89438	7.6	0.069196	0.02	1.08	1.27	39.60	5029.2	3960.0	50.3	15925.	0.007037	1.942	0.069196	0.0000000
56	10.00	9.90	3.48000	122.89438	7.6	0.069196	0.02	1.10	1.27	39.60	5029.2	3960.0	50.3	16175.	0.007147	1.942	0.069196	0.0000000
57	9.90	9.80	3.48000	122.89438	7.6	0.069196	0.02	1.12	1.27	39.60	5029.2	3960.0	50.3	16424.	0.007257	1.942	0.069196	0.0000000
58	9.80	9.70	3.48000	122.89438	7.6	0.069196	0.02	1.13	1.27	39.60	5029.2	3960.0	50.3	16674.	0.007367	1.942	0.069196	0.0000000
59	9.70	9.60	3.48000	122.89438	7.6	0.069196	0.02	1.15	1.27	39.60	5029.2	3960.0	50.3	16923.	0.007478	1.942	0.069196	0.0000000
60	9.60	9.50	3.48000	122.89438	7.6	0.069196	0.02	1.17	1.27	39.60	5029.2	3960.0	50.3	17173.	0.007588	1.942	0.069196	0.0000000
61	9.50	9.40	3.48000	122.89438	7.6	0.069196	0.02	1.18	1.27	39.60	5029.2	3960.0	50.3	17422.	0.007698	1.942	0.069196	0.0000000
62	9.40	9.30	3.48000	122.89438	7.6	0.069196	0.02	1.20	1.27	39.60	5029.2	3960.0	50.3	17672.	0.007808	1.942	0.069196	0.0000000
63	9.30	9.20	3.48000	122.89438	7.6	0.069196	0.02	1.22	1.27	39.60	5029.2	3960.0	50.3	17921.	0.007919	1.942	0.069196	0.0000000
64	9.20	9.10	3.48000	122.89438	7.6	0.069196	0.02	1.23	1.27	39.60	5029.2	3960.0	50.3	18170.	0.008029	1.942	0.069196	0.0000000
65	9.10	9.00	3.48000	122.89438	7.6	0.069196	0.02	1.25	1.27	39.60	5029.2	3960.0	50.3	18420.	0.008139	1.942	0.069196	0.0000000
66	9.00	8.90	3.48000	122.89438	7.6	0.069196	0.02	1.27	1.27	39.60	5029.2	3960.0	50.3	18669.	0.008249	1.942	0.069196	0.0000000
67	8.90	8.80	3.48000	122.89438	7.6	0.069196	0.02	1.28	1.27	39.60	5029.2	3960.0	50.3	18919.	0.008360	1.942	0.069196	0.0000000
68	8.80	8.70	3.48000	122.89438	7.6	0.069196	0.02	1.30	1.27	39.60	5029.2	3960.0	50.3	19168.	0.008470	1.942	0.069196	0.0000000
69	8.70	8.60	3.48000	122.89438	7.6	0.069196	0.02	1.32	1.27	39.60	5029.2	3960.0	50.3	19418.	0.008580	1.942	0.069196	0.0000000
70	8.60	8.50	3.48000	122.89438	7.6	0.069196	0.02	1.33	1.27	39.60	5029.2	3960.0	50.3	19667.	0.008690	1.942	0.069196	0.0000000
71	8.50	8.40	3.48000	122.89438	7.6	0.069196	0.02	1.35	1.27	39.60	5029.2	3960.0	50.3	19917.	0.008801	1.942	0.069196	0.0000000
TOT							0.60				181051.3	142560.0						0.0000000
AVG						0.069196			1.27	39.60			50.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 4 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
36	11.900	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	11.800	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	11.700	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

39	11.600	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	11.500	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	11.400	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	11.300	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	11.200	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	11.100	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	11.000	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	10.900	7.69	0.89	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	10.800	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	10.700	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	10.600	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	10.500	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	10.400	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	10.300	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	10.200	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	10.100	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	10.000	7.69	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	9.900	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	9.800	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	9.700	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	9.600	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.76	1.76	1.76	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	9.500	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	9.400	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	9.300	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	9.200	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	9.100	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	9.000	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	8.900	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	8.800	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	8.700	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	8.600	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	8.500	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	8.400	7.70	0.88	0.18	0.25	0.00	0.00	0.06	0.25	0.00	1.75	1.75	1.75	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.75	0.12	0.20	0.00	0.00	0.04	0.20	0.00	1.00			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 4 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
36	11.900	29.00	0.09	192.88	13.44	3.13	18.29	4.83	18.29	4.83	5.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.1	0.0	0.	0.00
37	11.800	28.99	0.09	192.88	13.44	3.11	18.23	4.82	18.23	4.82	5.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.0	0.0	0.	0.00
38	11.700	28.99	0.09	192.88	13.44	3.08	18.16	4.80	18.16	4.80	4.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.8	0.0	0.	0.00
39	11.600	28.99	0.09	192.88	13.44	3.05	18.10	4.78	18.10	4.78	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.7	0.0	0.	0.00
40	11.500	28.99	0.09	192.88	13.44	3.02	18.03	4.76	18.03	4.76	4.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.6	0.0	0.	0.00
41	11.400	28.98	0.09	192.88	13.44	2.99	17.97	4.75	17.97	4.75	4.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.5	0.0	0.	0.00
42	11.300	28.98	0.09	192.88	13.44	2.97	17.90	4.73	17.90	4.73	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.3	0.0	0.	0.00
43	11.200	28.98	0.09	192.88	13.44	2.94	17.84	4.71	17.84	4.71	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.2	0.0	0.	0.00
44	11.100	28.98	0.09	192.88	13.44	2.92	17.78	4.70	17.78	4.70	4.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.1	0.0	0.	0.00
45	11.000	28.97	0.09	192.88	13.44	2.90	17.72	4.68	17.72	4.68	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.0	0.0	0.	0.00
46	10.900	28.97	0.09	192.88	13.44	2.87	17.66	4.67	17.66	4.67	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.9	0.0	0.	0.00
47	10.800	28.97	0.09	192.88	13.44	2.85	17.59	4.65	17.59	4.65	4.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.7	0.0	0.	0.00
48	10.700	28.96	0.09	192.88	13.44	2.83	17.53	4.63	17.53	4.63	4.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.6	0.0	0.	0.00
49	10.600	28.96	0.09	192.88	13.44	2.81	17.47	4.62	17.47	4.62	4.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.5	0.0	0.	0.00
50	10.500	28.96	0.09	192.88	13.44	2.79	17.41	4.60	17.41	4.60	4.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.4	0.0	0.	0.00
51	10.400	28.96	0.09	192.88	13.44	2.77	17.35	4.59	17.35	4.59	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.2	0.0	0.	0.00
52	10.300	28.95	0.09	192.88	13.44	2.75	17.29	4.57	17.29	4.57	4.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.1	0.0	0.	0.00
53	10.200	28.95	0.09	192.88	13.44	2.73	17.24	4.55	17.24	4.55	4.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.0	0.0	0.	0.00
54	10.100	28.95	0.09	192.88	13.44	2.71	17.18	4.54	17.18	4.54	4.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.9	0.0	0.	0.00
55	10.000	28.94	0.09	192.88	13.44	2.69	17.12	4.52	17.12	4.52	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.8	0.0	0.	0.00
56	9.900	28.94	0.09	192.88	13.44	2.68	17.06	4.51	17.06	4.51	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.6	0.0	0.	0.00
57	9.800	28.94	0.09	192.88	13.44	2.66	17.00	4.49	17.00	4.49	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.5	0.0	0.	0.00
58	9.700	28.94	0.09	192.88	13.44	2.64	16.95	4.48	16.95	4.48	4.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.4	0.0	0.	0.00
59	9.600	28.93	0.09	192.88	13.44	2.63	16.89	4.46	16.89	4.46	4.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.3	0.0	0.	0.00

60	9.500	28.93	0.09	192.88	13.44	2.61	16.84	4.45	16.84	4.45	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.1	0.0	0.	0.00
61	9.400	28.93	0.09	192.88	13.44	2.60	16.78	4.43	16.78	4.43	4.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.0	0.0	0.	0.00
62	9.300	28.92	0.09	192.88	13.44	2.58	16.73	4.42	16.73	4.42	4.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.9	0.0	0.	0.00
63	9.200	28.92	0.09	192.88	13.44	2.57	16.67	4.40	16.67	4.40	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.8	0.0	0.	0.00
64	9.100	28.92	0.09	192.88	13.44	2.56	16.62	4.39	16.62	4.39	4.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.7	0.0	0.	0.00
65	9.000	28.92	0.09	192.88	13.44	2.54	16.56	4.37	16.56	4.37	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.5	0.0	0.	0.00
66	8.900	28.91	0.09	192.88	13.44	2.53	16.51	4.36	16.51	4.36	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.4	0.0	0.	0.00
67	8.800	28.91	0.09	192.88	13.44	2.52	16.46	4.34	16.46	4.34	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.3	0.0	0.	0.00
68	8.700	28.91	0.09	192.88	13.44	2.51	16.40	4.33	16.40	4.33	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.2	0.0	0.	0.00
69	8.600	28.91	0.09	192.88	13.44	2.50	16.35	4.31	16.35	4.31	4.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.0	0.0	0.	0.00
70	8.500	28.90	0.09	192.88	13.44	2.49	16.30	4.30	16.30	4.30	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.9	0.0	0.	0.00
71	8.400	28.90	0.09	192.88	13.44	2.47	16.24	4.29	16.24	4.29	4.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 4 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
36	11.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.1	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
37	11.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	92.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
38	11.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
39	11.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.7	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
40	11.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.6	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
41	11.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.5	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
42	11.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.3	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
43	11.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
44	11.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.1	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
45	11.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	91.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
46	10.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.9	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
47	10.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.7	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
48	10.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.6	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
49	10.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.5	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
50	10.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.4	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
51	10.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
52	10.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.1	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
53	10.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	90.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
54	10.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.9	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
55	10.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
56	9.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.6	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
57	9.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.5	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
58	9.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.4	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
59	9.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.3	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
60	9.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.1	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
61	9.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	89.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
62	9.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.9	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
63	9.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
64	9.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.7	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
65	9.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.5	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
66	8.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.4	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
67	8.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.3	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
68	8.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.2	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
69	8.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	88.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
70	8.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.9	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
71	8.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 5 BLB FROM RKM 8.4 TO BLB05 WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN

********** INPUTS FOR REACH 5 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
72	UPR RCH	3.48000	122.89438	28.90	0.09	192.88	13.44	2.47	16.24	4.29	16.24	4.29	4.28	0.00	0.00	0.00	87.80	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 5 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
72	8.40	8.30	3.48000	122.89438	7.6	0.062890	0.02	1.37	1.05	52.70	5533.5	5270.0	55.3	20249.	0.008132	1.506	0.062890	0.0000000
73	8.30	8.20	3.48000	122.89438	7.6	0.062890	0.02	1.39	1.05	52.70	5533.5	5270.0	55.3	20581.	0.008265	1.506	0.062890	0.0000000
74	8.20	8.10	3.48000	122.89438	7.6	0.062890	0.02	1.41	1.05	52.70	5533.5	5270.0	55.3	20913.	0.008398	1.506	0.062890	0.0000000
75	8.10	8.00	3.48000	122.89438	7.6	0.062890	0.02	1.42	1.05	52.70	5533.5	5270.0	55.3	21245.	0.008532	1.506	0.062890	0.0000000
76	8.00	7.90	3.48000	122.89438	7.6	0.062890	0.02	1.44	1.05	52.70	5533.5	5270.0	55.3	21577.	0.008665	1.506	0.062890	0.0000000
77	7.90	7.80	3.48000	122.89438	7.6	0.062890	0.02	1.46	1.05	52.70	5533.5	5270.0	55.3	21909.	0.008798	1.506	0.062890	0.0000000
78	7.80	7.70	3.48000	122.89438	7.6	0.062890	0.02	1.48	1.05	52.70	5533.5	5270.0	55.3	22241.	0.008932	1.506	0.062890	0.0000000
79	7.70	7.60	3.48000	122.89438	7.6	0.062890	0.02	1.50	1.05	52.70	5533.5	5270.0	55.3	22573.	0.009065	1.506	0.062890	0.0000000
80	7.60	7.50	3.48000	122.89438	7.6	0.062890	0.02	1.52	1.05	52.70	5533.5	5270.0	55.3	22905.	0.009198	1.506	0.062890	0.0000000
81	7.50	7.40	3.48000	122.89438	7.6	0.062890	0.02	1.54	1.05	52.70	5533.5	5270.0	55.3	23237.	0.009332	1.506	0.062890	0.0000000
82	7.40	7.30	3.48000	122.89438	7.6	0.062890	0.02	1.55	1.05	52.70	5533.5	5270.0	55.3	23569.	0.009465	1.506	0.062890	0.0000000
83	7.30	7.20	3.48000	122.89438	7.6	0.062890	0.02	1.57	1.05	52.70	5533.5	5270.0	55.3	23901.	0.009598	1.506	0.062890	0.0000000
84	7.20	7.10	3.48000	122.89438	7.6	0.062890	0.02	1.59	1.05	52.70	5533.5	5270.0	55.3	24233.	0.009732	1.506	0.062890	0.0000000
85	7.10	7.00	3.48000	122.89438	7.6	0.062890	0.02	1.61	1.05	52.70	5533.5	5270.0	55.3	24565.	0.009865	1.506	0.062890	0.0000000
86	7.00	6.90	3.48000	122.89438	7.6	0.062890	0.02	1.63	1.05	52.70	5533.5	5270.0	55.3	24897.	0.009998	1.506	0.062890	0.0000000
87	6.90	6.80	3.48000	122.89438	7.6	0.062890	0.02	1.65	1.05	52.70	5533.5	5270.0	55.3	25229.	0.010132	1.506	0.062890	0.0000000
88	6.80	6.70	3.48000	122.89438	7.6	0.062890	0.02	1.66	1.05	52.70	5533.5	5270.0	55.3	25561.	0.010265	1.506	0.062890	0.0000000
89	6.70	6.60	3.48000	122.89438	7.6	0.062890	0.02	1.68	1.05	52.70	5533.5	5270.0	55.3	25893.	0.010398	1.506	0.062890	0.0000000
90	6.60	6.50	3.48000	122.89438	7.6	0.062890	0.02	1.70	1.05	52.70	5533.5	5270.0	55.3	26225.	0.010532	1.506	0.062890	0.0000000
91	6.50	6.40	3.48000	122.89438	7.6	0.062890	0.02	1.72	1.05	52.70	5533.5	5270.0	55.3	26557.	0.010665	1.506	0.062890	0.0000000
92	6.40	6.30	3.48000	122.89438	7.6	0.062890	0.02	1.74	1.05	52.70	5533.5	5270.0	55.3	26889.	0.010798	1.506	0.062890	0.0000000
TOT							0.39				116203.5	110670.0						0.0000000
AVG						0.062890			1.05	52.70			55.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 5 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
72	8.300	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	8.200	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	8.100	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	8.000	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.16	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	7.900	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	7.800	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	7.700	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	7.600	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	7.500	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	7.400	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82	7.300	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	7.200	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	7.100	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	7.000	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	6.900	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	6.800	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	6.700	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	6.600	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	6.500	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	6.400	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.50	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	6.300	7.70	1.02	0.18	0.25	0.00	0.00	0.06	0.25	0.00	3.50	3.50	3.47	0.14	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.87	0.12	0.20	0.00	0.00	0.04	0.20	0.00	2.00			0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 5 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
72	8.300	28.90	0.09	192.88	13.44	2.44	16.13	4.28	16.13	4.28	4.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
73	8.200	28.90	0.09	192.88	13.44	2.41	16.02	4.27	16.02	4.27	4.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
74	8.100	28.90	0.09	192.88	13.44	2.38	15.91	4.26	15.91	4.26	4.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
75	8.000	28.90	0.10	192.88	13.44	2.35	15.80	4.26	15.80	4.26	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
76	7.900	28.90	0.10	192.88	13.44	2.32	15.69	4.25	15.69	4.25	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
77	7.800	28.90	0.10	192.88	13.44	2.29	15.58	4.24	15.58	4.24	4.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
78	7.700	28.90	0.10	192.88	13.44	2.27	15.48	4.23	15.48	4.23	4.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
79	7.600	28.90	0.10	192.88	13.44	2.24	15.37	4.23	15.37	4.23	4.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
80	7.500	28.90	0.10	192.88	13.44	2.21	15.27	4.22	15.27	4.22	4.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
81	7.400	28.90	0.10	192.88	13.44	2.19	15.17	4.21	15.17	4.21	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
82	7.300	28.90	0.11	192.88	13.44	2.17	15.06	4.20	15.06	4.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
83	7.200	28.90	0.11	192.88	13.44	2.15	14.96	4.19	14.96	4.19	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
84	7.100	28.90	0.11	192.88	13.44	2.12	14.86	4.19	14.86	4.19	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
85	7.000	28.90	0.11	192.88	13.44	2.10	14.76	4.18	14.76	4.18	4.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
86	6.900	28.90	0.11	192.88	13.44	2.08	14.66	4.17	14.66	4.17	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
87	6.800	28.90	0.11	192.88	13.44	2.07	14.56	4.17	14.56	4.17	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
88	6.700	28.90	0.11	192.88	13.44	2.05	14.47	4.16	14.47	4.16	4.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
89	6.600	28.90	0.12	192.88	13.44	2.03	14.37	4.15	14.37	4.15	3.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
90	6.500	28.90	0.12	192.88	13.44	2.01	14.27	4.14	14.27	4.14	3.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
91	6.400	28.90	0.12	192.88	13.44	2.00	14.18	4.13	14.18	4.13	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
92	6.300	28.90	0.12	192.88	13.44	1.98	14.09	4.12	14.09	4.12	3.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 5 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
72	8.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
73	8.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
74	8.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
75	8.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
76	7.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
77	7.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
78	7.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
79	7.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
80	7.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
81	7.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
82	7.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
83	7.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
84	7.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
85	7.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
86	6.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
87	6.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
88	6.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
89	6.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
90	6.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
91	6.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
92	6.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 6 BLB FROM BLB05 TO RKM 2.5 WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN

********** INPUTS FOR REACH 6 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
93	UPR RCH	3.48000	122.89438	28.90	0.12	192.88	13.44	1.98	14.09	4.12	14.09	4.12	3.94	0.00	0.00	0.00	87.80	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 6 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
93	6.30	6.20	3.48000	122.89438	7.6	0.062890	0.02	1.76	1.05	52.70	5533.5	5270.0	55.3	27221.	0.010932	1.506	0.062890	0.0000000
94	6.20	6.10	3.48000	122.89438	7.6	0.062890	0.02	1.77	1.05	52.70	5533.5	5270.0	55.3	27553.	0.011065	1.506	0.062890	0.0000000
95	6.10	6.00	3.48000	122.89438	7.6	0.062890	0.02	1.79	1.05	52.70	5533.5	5270.0	55.3	27885.	0.011198	1.506	0.062890	0.0000000
96	6.00	5.90	3.48000	122.89438	7.6	0.062890	0.02	1.81	1.05	52.70	5533.5	5270.0	55.3	28217.	0.011332	1.506	0.062890	0.0000000
97	5.90	5.80	3.48000	122.89438	7.6	0.062890	0.02	1.83	1.05	52.70	5533.5	5270.0	55.3	28549.	0.011465	1.506	0.062890	0.0000000
98	5.80	5.70	3.48000	122.89438	7.6	0.062890	0.02	1.85	1.05	52.70	5533.5	5270.0	55.3	28881.	0.011598	1.506	0.062890	0.0000000
99	5.70	5.60	3.48000	122.89438	7.6	0.062890	0.02	1.87	1.05	52.70	5533.5	5270.0	55.3	29213.	0.011732	1.506	0.062890	0.0000000
100	5.60	5.50	3.48000	122.89438	7.6	0.062890	0.02	1.88	1.05	52.70	5533.5	5270.0	55.3	29545.	0.011865	1.506	0.062890	0.0000000
101	5.50	5.40	3.48000	122.89438	7.6	0.062890	0.02	1.90	1.05	52.70	5533.5	5270.0	55.3	29877.	0.011998	1.506	0.062890	0.0000000
102	5.40	5.30	3.48000	122.89438	7.6	0.062890	0.02	1.92	1.05	52.70	5533.5	5270.0	55.3	30209.	0.012132	1.506	0.062890	0.0000000
103	5.30	5.20	3.48000	122.89438	7.6	0.062890	0.02	1.94	1.05	52.70	5533.5	5270.0	55.3	30541.	0.012265	1.506	0.062890	0.0000000
104	5.20	5.10	3.48000	122.89438	7.6	0.062890	0.02	1.96	1.05	52.70	5533.5	5270.0	55.3	30873.	0.012398	1.506	0.062890	0.0000000
105	5.10	5.00	3.48000	122.89438	7.6	0.062890	0.02	1.98	1.05	52.70	5533.5	5270.0	55.3	31205.	0.012532	1.506	0.062890	0.0000000
106	5.00	4.90	3.48000	122.89438	7.6	0.062890	0.02	2.00	1.05	52.70	5533.5	5270.0	55.3	31537.	0.012665	1.506	0.062890	0.0000000
107	4.90	4.80	3.48000	122.89438	7.6	0.062890	0.02	2.01	1.05	52.70	5533.5	5270.0	55.3	31869.	0.012798	1.506	0.062890	0.0000000
108	4.80	4.70	3.48000	122.89438	7.6	0.062890	0.02	2.03	1.05	52.70	5533.5	5270.0	55.3	32201.	0.012932	1.506	0.062890	0.0000000
109	4.70	4.60	3.48000	122.89438	7.6	0.062890	0.02	2.05	1.05	52.70	5533.5	5270.0	55.3	32533.	0.013065	1.506	0.062890	0.0000000
110	4.60	4.50	3.48000	122.89438	7.6	0.062890	0.02	2.07	1.05	52.70	5533.5	5270.0	55.3	32865.	0.013198	1.506	0.062890	0.0000000
111	4.50	4.40	3.48000	122.89438	7.6	0.062890	0.02	2.09	1.05	52.70	5533.5	5270.0	55.3	33197.	0.013332	1.506	0.062890	0.0000000
112	4.40	4.30	3.48000	122.89438	7.6	0.062890	0.02	2.11	1.05	52.70	5533.5	5270.0	55.3	33529.	0.013465	1.506	0.062890	0.0000000
113	4.30	4.20	3.48000	122.89438	7.6	0.062890	0.02	2.12	1.05	52.70	5533.5	5270.0	55.3	33861.	0.013598	1.506	0.062890	0.0000000
114	4.20	4.10	3.48000	122.89438	7.6	0.062890	0.02	2.14	1.05	52.70	5533.5	5270.0	55.3	34193.	0.013732	1.506	0.062890	0.0000000
115	4.10	4.00	3.48000	122.89438	7.6	0.062890	0.02	2.16	1.05	52.70	5533.5	5270.0	55.3	34525.	0.013865	1.506	0.062890	0.0000000
116	4.00	3.90	3.48000	122.89438	7.6	0.062890	0.02	2.18	1.05	52.70	5533.5	5270.0	55.3	34857.	0.013998	1.506	0.062890	0.0000000
117	3.90	3.80	3.48000	122.89438	7.6	0.062890	0.02	2.20	1.05	52.70	5533.5	5270.0	55.3	35189.	0.014132	1.506	0.062890	0.0000000
118	3.80	3.70	3.48000	122.89438	7.6	0.062890	0.02	2.22	1.05	52.70	5533.5	5270.0	55.3	35521.	0.014265	1.506	0.062890	0.0000000
119	3.70	3.60	3.48000	122.89438	7.6	0.062890	0.02	2.23	1.05	52.70	5533.5	5270.0	55.3	35853.	0.014398	1.506	0.062890	0.0000000
120	3.60	3.50	3.48000	122.89438	7.6	0.062890	0.02	2.25	1.05	52.70	5533.5	5270.0	55.3	36185.	0.014532	1.506	0.062890	0.0000000
121	3.50	3.40	3.48000	122.89438	7.6	0.062890	0.02	2.27	1.05	52.70	5533.5	5270.0	55.3	36517.	0.014665	1.506	0.062890	0.0000000
122	3.40	3.30	3.48000	122.89438	7.6	0.062890	0.02	2.29	1.05	52.70	5533.5	5270.0	55.3	36849.	0.014798	1.506	0.062890	0.0000000
123	3.30	3.20	3.48000	122.89438	7.6	0.062890	0.02	2.31	1.05	52.70	5533.5	5270.0	55.3	37181.	0.014932	1.506	0.062890	0.0000000
124	3.20	3.10	3.48000	122.89438	7.6	0.062890	0.02	2.33	1.05	52.70	5533.5	5270.0	55.3	37513.	0.015065	1.506	0.062890	0.0000000
125	3.10	3.00	3.48000	122.89438	7.6	0.062890	0.02	2.34	1.05	52.70	5533.5	5270.0	55.3	37845.	0.015198	1.506	0.062890	0.0000000
126	3.00	2.90	3.48000	122.89438	7.6	0.062890	0.02	2.36	1.05	52.70	5533.5	5270.0	55.3	38177.	0.015332	1.506	0.062890	0.0000000
127	2.90	2.80	3.48000	122.89438	7.6	0.062890	0.02	2.38	1.05	52.70	5533.5	5270.0	55.3	38509.	0.015465	1.506	0.062890	0.0000000
128	2.80	2.70	3.48000	122.89438	7.6	0.062890	0.02	2.40	1.05	52.70	5533.5	5270.0	55.3	38841.	0.015598	1.506	0.062890	0.0000000
129	2.70	2.60	3.48000	122.89438	7.6	0.062890	0.02	2.42	1.05	52.70	5533.5	5270.0	55.3	39173.	0.015732	1.506	0.062890	0.0000000
130	2.60	2.50	3.48000	122.89438	7.6	0.062890	0.02	2.44	1.05	52.70	5533.5	5270.0	55.3	39505.	0.015865	1.506	0.062890	0.0000000
TOT							0.70				210273.0	200260.0						0.0000000
AVG						0.062890			1.05	52.70			55.3					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 6 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
93	6.200	7.70	1.02	0.18	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.45	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	6.100	7.70	1.02	0.18	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.43	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6.000	7.70	1.02	0.18	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.41	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5.900	7.70	1.02	0.18	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.40	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	5.800	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.38	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

98	5.700	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.37	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	5.600	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.36	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	5.500	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.35	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	5.400	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.34	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	5.300	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.34	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	5.200	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.33	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	5.100	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.33	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	5.000	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	4.900	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	4.800	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	4.700	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	4.600	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	4.500	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.31	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	4.400	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.31	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	4.300	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	4.200	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	4.100	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	4.000	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	3.900	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	3.800	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.32	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	3.700	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.33	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	3.600	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.33	0.12	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	3.500	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.33	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	3.400	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.34	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	3.300	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.34	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	3.200	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.34	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	3.100	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.35	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	3.000	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.35	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	2.900	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.35	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	2.800	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.36	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	2.700	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.36	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	2.600	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.37	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	2.500	7.70	1.02	0.17	0.25	0.00	0.00	0.05	0.62	0.00	3.50	3.50	3.37	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.87	0.12	0.20	0.00	0.00	0.04	0.50	0.00	2.00			0.12	0.20	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 6 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
93	6.200	28.90	0.12	192.88	13.44	1.97	14.00	4.08	14.00	4.08	3.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
94	6.100	28.90	0.12	192.88	13.44	1.96	13.92	4.05	13.92	4.05	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
95	6.000	28.90	0.12	192.88	13.44	1.95	13.84	4.01	13.84	4.01	3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
96	5.900	28.90	0.12	192.88	13.44	1.94	13.76	3.98	13.76	3.98	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
97	5.800	28.90	0.12	192.88	13.44	1.93	13.68	3.94	13.68	3.94	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
98	5.700	28.90	0.12	192.88	13.44	1.93	13.60	3.90	13.60	3.90	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
99	5.600	28.90	0.12	192.88	13.44	1.92	13.52	3.87	13.52	3.87	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
100	5.500	28.90	0.12	192.88	13.44	1.91	13.44	3.84	13.44	3.84	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
101	5.400	28.90	0.12	192.88	13.44	1.91	13.37	3.80	13.37	3.80	3.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
102	5.300	28.90	0.13	192.88	13.44	1.91	13.29	3.77	13.29	3.77	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
103	5.200	28.90	0.13	192.88	13.44	1.90	13.22	3.74	13.22	3.74	3.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
104	5.100	28.90	0.13	192.88	13.44	1.90	13.14	3.70	13.14	3.70	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
105	5.000	28.90	0.13	192.88	13.44	1.90	13.07	3.67	13.07	3.67	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
106	4.900	28.90	0.13	192.88	13.44	1.90	12.99	3.64	12.99	3.64	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
107	4.800	28.90	0.13	192.88	13.44	1.89	12.92	3.61	12.92	3.61	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
108	4.700	28.90	0.13	192.88	13.44	1.89	12.85	3.58	12.85	3.58	3.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
109	4.600	28.90	0.13	192.88	13.44	1.89	12.78	3.55	12.78	3.55	3.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
110	4.500	28.90	0.13	192.88	13.44	1.89	12.70	3.52	12.70	3.52	3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
111	4.400	28.90	0.13	192.88	13.44	1.89	12.63	3.49	12.63	3.49	3.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
112	4.300	28.90	0.13	192.88	13.44	1.89	12.56	3.46	12.56	3.46	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
113	4.200	28.90	0.13	192.88	13.44	1.89	12.49	3.43	12.49	3.43	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
114	4.100	28.90	0.13	192.88	13.44	1.89	12.42	3.40	12.42	3.40	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
115	4.000	28.90	0.13	192.88	13.44	1.90	12.36	3.37	12.36	3.37	3.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
116	3.900	28.90	0.13	192.88	13.44	1.90	12.29	3.34	12.29	3.34	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00

117	3.800	28.90	0.13	192.88	13.44	1.90	12.22	3.32	12.22	3.32	3.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
118	3.700	28.90	0.13	192.88	13.44	1.90	12.15	3.29	12.15	3.29	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
119	3.600	28.90	0.13	192.88	13.44	1.90	12.09	3.26	12.09	3.26	3.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
120	3.500	28.90	0.13	192.88	13.44	1.90	12.02	3.23	12.02	3.23	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
121	3.400	28.90	0.14	192.88	13.44	1.90	11.95	3.21	11.95	3.21	3.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
122	3.300	28.90	0.14	192.88	13.44	1.91	11.89	3.18	11.89	3.18	3.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
123	3.200	28.90	0.14	192.88	13.44	1.91	11.82	3.16	11.82	3.16	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
124	3.100	28.90	0.14	192.88	13.44	1.91	11.76	3.13	11.76	3.13	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
125	3.000	28.90	0.14	192.88	13.44	1.91	11.70	3.11	11.70	3.11	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
126	2.900	28.90	0.14	192.88	13.44	1.92	11.63	3.08	11.63	3.08	3.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
127	2.800	28.90	0.14	192.88	13.44	1.92	11.57	3.06	11.57	3.06	3.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
128	2.700	28.90	0.14	192.88	13.44	1.92	11.51	3.03	11.51	3.03	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
129	2.600	28.90	0.14	192.88	13.44	1.92	11.44	3.01	11.44	3.01	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
130	2.500	28.90	0.14	192.88	13.44	1.92	11.38	2.98	11.38	2.98	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 6 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
93	6.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
94	6.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
95	6.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
96	5.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
97	5.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
98	5.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
99	5.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
100	5.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
101	5.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
102	5.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
103	5.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
104	5.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
105	5.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
106	4.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
107	4.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
108	4.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
109	4.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
110	4.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
111	4.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
112	4.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
113	4.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
114	4.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
115	4.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
116	3.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
117	3.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
118	3.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
119	3.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
120	3.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
121	3.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
122	3.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
123	3.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
124	3.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
125	3.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
126	2.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
127	2.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
128	2.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
129	2.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
130	2.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
20 DEG C RATE										0.000	0.000	0.000	0.000										0.000	0.000	0.000		

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

FINAL REPORT BAYOU L'EAU BLEU WATER QUALITY MODEL FOR BAYOU L'EAU BLEU
REACH NO. 7 BLB FROM RKM 2.5 TO ICWW CONF WATER QUALITY MODEL CALIBRATION SENSITIVITY RUN

********** INPUTS FOR REACH 7 **********

ELEM NO.	TYPE	FLOW m³/s	FLOW cfs	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	PO4-P mg/L	CHL A µg/L	COLI #/100mL	NCM
131	UPR RCH	3.48000	122.89438	28.90	0.14	192.88	13.44	1.92	11.38	2.98	11.38	2.98	3.10	0.00	0.00	0.00	87.80	0.00	0.00

********** HYDRAULIC PARAMETER VALUES FOR REACH 7 **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	ADVCTV FLOW m³/s	ADVCTV FLOW cfs	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	CUM 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	EVAP m³/s
131	2.50	2.40	3.48000	122.89438	7.6	0.057612	0.02	2.46	1.49	40.54	6040.5	4054.0	60.4	39761.	0.014628	1.847	0.057612	0.0000000
132	2.40	2.30	3.48000	122.89438	7.6	0.057612	0.02	2.48	1.49	40.54	6040.5	4054.0	60.4	40016.	0.014722	1.847	0.057612	0.0000000
133	2.30	2.20	3.48000	122.89438	7.6	0.057612	0.02	2.50	1.49	40.54	6040.5	4054.0	60.4	40272.	0.014816	1.847	0.057612	0.0000000
134	2.20	2.10	3.48000	122.89438	7.6	0.057612	0.02	2.52	1.49	40.54	6040.5	4054.0	60.4	40527.	0.014909	1.847	0.057612	0.0000000
135	2.10	2.00	3.48000	122.89438	7.6	0.057612	0.02	2.54	1.49	40.54	6040.5	4054.0	60.4	40782.	0.015003	1.847	0.057612	0.0000000
136	2.00	1.90	3.48000	122.89438	7.6	0.057612	0.02	2.56	1.49	40.54	6040.5	4054.0	60.4	41038.	0.015097	1.847	0.057612	0.0000000
137	1.90	1.80	3.48000	122.89438	7.6	0.057612	0.02	2.58	1.49	40.54	6040.5	4054.0	60.4	41293.	0.015191	1.847	0.057612	0.0000000
138	1.80	1.70	3.48000	122.89438	7.6	0.057612	0.02	2.60	1.49	40.54	6040.5	4054.0	60.4	41549.	0.015285	1.847	0.057612	0.0000000
139	1.70	1.60	3.48000	122.89438	7.6	0.057612	0.02	2.62	1.49	40.54	6040.5	4054.0	60.4	41804.	0.015379	1.847	0.057612	0.0000000
140	1.60	1.50	3.48000	122.89438	7.6	0.057612	0.02	2.64	1.49	40.54	6040.5	4054.0	60.4	42059.	0.015473	1.847	0.057612	0.0000000
141	1.50	1.40	3.48000	122.89438	7.6	0.057612	0.02	2.66	1.49	40.54	6040.5	4054.0	60.4	42315.	0.015567	1.847	0.057612	0.0000000
142	1.40	1.30	3.48000	122.89438	7.6	0.057612	0.02	2.68	1.49	40.54	6040.5	4054.0	60.4	42570.	0.015661	1.847	0.057612	0.0000000
143	1.30	1.20	3.48000	122.89438	7.6	0.057612	0.02	2.70	1.49	40.54	6040.5	4054.0	60.4	42826.	0.015755	1.847	0.057612	0.0000000
144	1.20	1.10	3.48000	122.89438	7.6	0.057612	0.02	2.72	1.49	40.54	6040.5	4054.0	60.4	43081.	0.015849	1.847	0.057612	0.0000000
145	1.10	1.00	3.48000	122.89438	7.6	0.057612	0.02	2.74	1.49	40.54	6040.5	4054.0	60.4	43336.	0.015943	1.847	0.057612	0.0000000
146	1.00	0.90	3.48000	122.89438	7.6	0.057612	0.02	2.76	1.49	40.54	6040.5	4054.0	60.4	43592.	0.016037	1.847	0.057612	0.0000000
147	0.90	0.80	3.48000	122.89438	7.6	0.057612	0.02	2.78	1.49	40.54	6040.5	4054.0	60.4	43847.	0.016131	1.847	0.057612	0.0000000
148	0.80	0.70	3.48000	122.89438	7.6	0.057612	0.02	2.80	1.49	40.54	6040.5	4054.0	60.4	44103.	0.016225	1.847	0.057612	0.0000000
149	0.70	0.60	3.48000	122.89438	7.6	0.057612	0.02	2.82	1.49	40.54	6040.5	4054.0	60.4	44358.	0.016319	1.847	0.057612	0.0000000
150	0.60	0.50	3.48000	122.89438	7.6	0.057612	0.02	2.84	1.49	40.54	6040.5	4054.0	60.4	44614.	0.016413	1.847	0.057612	0.0000000
151	0.50	0.40	3.48000	122.89438	7.6	0.057612	0.02	2.86	1.49	40.54	6040.5	4054.0	60.4	44869.	0.016507	1.847	0.057612	0.0000000
152	0.40	0.30	3.48000	122.89438	7.6	0.057612	0.02	2.88	1.49	40.54	6040.5	4054.0	60.4	45124.	0.016601	1.847	0.057612	0.0000000
153	0.30	0.20	3.48000	122.89438	7.6	0.057612	0.02	2.90	1.49	40.54	6040.5	4054.0	60.4	45380.	0.016695	1.847	0.057612	0.0000000
154	0.20	0.10	3.48000	122.89438	7.6	0.057612	0.02	2.92	1.49	40.54	6040.5	4054.0	60.4	45635.	0.016789	1.847	0.057612	0.0000000
155	0.10	0.00	3.48000	122.89438	7.6	0.057612	0.02	2.94	1.49	40.54	6040.5	4054.0	60.4	45891.	0.016883	1.847	0.057612	0.0000000
TOT							0.50				151011.5	101350.0						0.0000000
AVG						0.057612			1.49	40.54			60.4					

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS FOR REACH 7 **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD1 DECAY 1/da	BOD1 SETT 1/da	ABOD1 DECAY 1/da	BOD1 HYDR 1/da	BOD2 DECAY 1/da	BOD2 SETT 1/da	ABOD2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORG-N HYDR 1/da	ORG-N SETT 1/da	NH3-N DECAY 1/da	NH3-N SRCE *	DENIT RATE 1/da	ORG-P HYDR 1/da	ORG-P SETT 1/da	PO4 SRCE *	PHYTO PROD **	PERIP PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
131	2.400	7.70	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	2.300	7.70	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	2.200	7.70	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	2.100	7.70	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	2.000	7.70	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	1.900	7.70	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	1.800	7.69	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.53	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	1.700	7.69	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.54	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	1.600	7.69	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.54	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	1.500	7.69	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.54	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	1.400	7.69	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.63	2.63	2.54	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	1.300	7.69	0.73	0.17	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.55	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	1.200	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.55	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	1.100	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.55	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

145	1.000	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.55	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	0.900	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.56	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.800	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.56	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	0.700	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.56	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	0.600	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.57	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.500	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.57	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	0.400	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.58	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.300	7.69	0.73	0.18	0.25	0.00	0.00	0.05	0.62	0.00	2.64	2.64	2.59	0.14	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.200	7.69	0.73	0.18	0.25	0.00	0.00	0.06	0.62	0.00	2.64	2.64	2.63	0.15	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	0.100	7.69	0.73	0.18	0.25	0.00	0.00	0.06	0.62	0.00	2.64	2.64	2.64	0.15	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.000	7.69	0.73	0.18	0.25	0.00	0.00	0.06	0.62	0.00	2.64	2.64	2.64	0.16	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.62	0.12	0.20	0.00	0.00	0.04	0.50	0.00	1.50			0.12	0.20	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES FOR REACH 7 **********

ELEM NO.	ENDING DIST	TEMP deg C	SALN ppt	CM-1 MG/L	CM-2 MG/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOT-N mg/L	EORG-N mg/L	ETOT-N mg/L	ORG-P mg/L	PO4-P mg/L	TOT-P mg/L	EORG-P mg/L	ETOT-P mg/L	CHL A µg/L	PERIP g/m²	COLI #/100mL	NCM
131	2.400	28.90	0.14	192.88	13.44	1.92	11.32	2.96	11.32	2.96	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
132	2.300	28.91	0.14	192.88	13.44	1.92	11.27	2.94	11.27	2.94	3.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
133	2.200	28.91	0.14	192.88	13.44	1.92	11.21	2.93	11.21	2.93	3.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
134	2.100	28.92	0.14	192.88	13.44	1.92	11.16	2.91	11.16	2.91	3.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
135	2.000	28.92	0.14	192.88	13.44	1.93	11.11	2.89	11.11	2.89	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
136	1.900	28.92	0.14	192.88	13.44	1.93	11.05	2.87	11.05	2.87	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
137	1.800	28.93	0.14	192.88	13.44	1.93	11.00	2.85	11.00	2.85	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
138	1.700	28.93	0.14	192.88	13.44	1.93	10.95	2.83	10.95	2.83	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
139	1.600	28.94	0.14	192.88	13.44	1.93	10.89	2.81	10.89	2.81	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
140	1.500	28.94	0.14	192.88	13.44	1.93	10.84	2.80	10.84	2.80	2.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
141	1.400	28.94	0.14	192.88	13.44	1.93	10.79	2.78	10.79	2.78	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
142	1.300	28.95	0.14	192.88	13.44	1.93	10.74	2.76	10.74	2.76	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
143	1.200	28.95	0.13	192.88	13.44	1.93	10.69	2.74	10.69	2.74	2.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
144	1.100	28.96	0.13	192.88	13.44	1.94	10.64	2.73	10.64	2.73	2.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
145	1.000	28.96	0.13	192.88	13.44	1.94	10.59	2.71	10.59	2.71	2.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
146	0.900	28.96	0.13	192.88	13.44	1.94	10.54	2.69	10.54	2.69	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
147	0.800	28.97	0.13	192.88	13.44	1.94	10.49	2.68	10.49	2.68	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
148	0.700	28.97	0.13	192.88	13.44	1.94	10.44	2.66	10.44	2.66	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
149	0.600	28.98	0.13	192.89	13.44	1.95	10.39	2.65	10.39	2.65	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
150	0.500	28.98	0.13	192.91	13.44	1.95	10.34	2.63	10.34	2.63	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
151	0.400	28.98	0.13	192.99	13.46	1.95	10.29	2.61	10.29	2.61	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
152	0.300	28.99	0.13	193.32	13.55	1.96	10.22	2.59	10.22	2.59	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
153	0.200	28.99	0.13	194.68	13.88	1.99	10.07	2.53	10.07	2.53	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
154	0.100	29.00	0.13	200.29	15.25	2.12	9.62	2.33	9.62	2.33	2.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00
155	0.000	29.00	0.13	223.40	20.89	2.64	7.91	1.57	7.91	1.57	2.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.8	0.0	0.	0.00

********** PHYTOPLANKTON AND PERIPHYTON DATA FOR REACH 7 **********

ELEM NO.	ENDING DIST	BANK SHADE frac	SECCHI DEPTH m	PHYT N PREF	PHYT LIT LIM	PHYT N LIM	PHYT P LIM	PHYT N&P LIM	PHYT TOT LIM	PHYT GROW 1/da	PHYT RESP 1/da	PHYT DEATH 1/da	PHYT SETT 1/da	PHYT P/R RATIO	PHYTO µg/L	PERI N PREF	PERI LIT LIM	PERI N LIM	PERI P LIM	PERI N&P LIM	PERI SPC LIM	PERI TOT LIM	PERI GROW 1/da	PERI RESP 1/da	PERI DEATH 1/da	PERI P/R RATIO	PERIP g/m²
131	2.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
132	2.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
133	2.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
134	2.100	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
135	2.000	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
136	1.900	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
137	1.800	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
138	1.700	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
139	1.600	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
140	1.500	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
141	1.400	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
142	1.300	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
143	1.200	0.00	Inf	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.0	87.8	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0

```
 144    1.100   0.00    Inf    1.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000  0.000   0.0   87.8    0.50 0.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000   0.0       0.0
 145    1.000   0.00    Inf    1.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000  0.000   0.0   87.8    0.50 0.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000   0.0       0.0
 146    0.900   0.00    Inf    1.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000  0.000   0.0   87.8    0.50 0.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000   0.0       0.0
 147    0.800   0.00    Inf    1.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000  0.000   0.0   87.8    0.50 0.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000   0.0       0.0
 148    0.700   0.00    Inf    1.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000  0.000   0.0   87.8    0.50 0.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000   0.0       0.0
 149    0.600   0.00    Inf    1.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000  0.000   0.0   87.8    0.50 0.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000   0.0       0.0
 150    0.500   0.00    Inf    1.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000  0.000   0.0   87.8    0.50 0.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000   0.0       0.0
 151    0.400   0.00    Inf    1.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000  0.000   0.0   87.8    0.50 0.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000   0.0       0.0
 152    0.300   0.00    Inf    1.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000  0.000   0.0   87.8    0.50 0.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000   0.0       0.0
 153    0.200   0.00    Inf    1.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000  0.000   0.0   87.8    0.50 0.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000   0.0       0.0
 154    0.100   0.00    Inf    1.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000  0.000   0.0   87.8    0.50 0.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000   0.0       0.0
 155    0.000   0.00    Inf    1.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000  0.000   0.0   87.8    0.50 0.00 0.00 0.00 0.00 0.00 0.00  0.000  0.000  0.000   0.0       0.0

20 DEG C RATE                                                 0.000  0.000  0.000  0.000                                                  0.000  0.000  0.000

NOTE ON NITR PREF:  1.0=NO3 ; 0.0=NH3



    .....BEGIN SENSITIVITY RUN  1 ON PARAMETER SET  1 AND COLUMN  1
    .....HYDRAULIC CALCULATIONS COMPLETED
    .....TRIDIAGONAL MATRIX TERMS INITIALIZED
    .....OXYGEN DEPENDENT RATES CONVERGENT IN   12 ITERATIONS
    .....CONSTITUENT CALCULATIONS COMPLETED



    .....BEGIN SENSITIVITY RUN  2 ON PARAMETER SET  1 AND COLUMN  2
    .....HYDRAULIC CALCULATIONS COMPLETED
    .....TRIDIAGONAL MATRIX TERMS INITIALIZED
    .....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
    .....CONSTITUENT CALCULATIONS COMPLETED



    .....BEGIN SENSITIVITY RUN  3 ON PARAMETER SET  2 AND COLUMN  1
    .....HYDRAULIC CALCULATIONS COMPLETED
    .....TRIDIAGONAL MATRIX TERMS INITIALIZED
    .....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
    .....CONSTITUENT CALCULATIONS COMPLETED



    .....BEGIN SENSITIVITY RUN  4 ON PARAMETER SET  2 AND COLUMN  2
    .....HYDRAULIC CALCULATIONS COMPLETED
    .....TRIDIAGONAL MATRIX TERMS INITIALIZED
    .....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
    .....CONSTITUENT CALCULATIONS COMPLETED



    .....BEGIN SENSITIVITY RUN  5 ON PARAMETER SET  3 AND COLUMN  1
    .....HYDRAULIC CALCULATIONS COMPLETED
    .....TRIDIAGONAL MATRIX TERMS INITIALIZED
    .....OXYGEN DEPENDENT RATES CONVERGENT IN   27 ITERATIONS
    .....CONSTITUENT CALCULATIONS COMPLETED



    .....BEGIN SENSITIVITY RUN  6 ON PARAMETER SET  3 AND COLUMN  2
    .....HYDRAULIC CALCULATIONS COMPLETED
    .....TRIDIAGONAL MATRIX TERMS INITIALIZED
```

```
.....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  7 ON PARAMETER SET  4 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   18 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  8 ON PARAMETER SET  4 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   12 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  9 ON PARAMETER SET  5 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 10 ON PARAMETER SET  5 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   12 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 11 ON PARAMETER SET  6 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 12 ON PARAMETER SET  6 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 13 ON PARAMETER SET  7 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

```
.....BEGIN SENSITIVITY RUN 14 ON PARAMETER SET  7 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   27 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 15 ON PARAMETER SET  8 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 16 ON PARAMETER SET  8 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 17 ON PARAMETER SET  9 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 18 ON PARAMETER SET  9 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 19 ON PARAMETER SET 10 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 20 ON PARAMETER SET 10 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 21 ON PARAMETER SET 11 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   19 ITERATIONS
```

```
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 22 ON PARAMETER SET 11 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   18 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 23 ON PARAMETER SET 12 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   27 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 24 ON PARAMETER SET 12 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   27 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 25 ON PARAMETER SET 13 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   12 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 26 ON PARAMETER SET 13 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   19 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 27 ON PARAMETER SET 14 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   12 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 28 ON PARAMETER SET 14 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

```
.....BEGIN SENSITIVITY RUN 29 ON PARAMETER SET 15 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 30 ON PARAMETER SET 15 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   18 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 31 ON PARAMETER SET 16 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   18 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 32 ON PARAMETER SET 16 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   12 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 33 ON PARAMETER SET 17 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 34 ON PARAMETER SET 17 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 35 ON PARAMETER SET 18 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 36 ON PARAMETER SET 18 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

```
.....BEGIN SENSITIVITY RUN 37 ON PARAMETER SET 19 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 38 ON PARAMETER SET 19 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   12 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 39 ON PARAMETER SET 20 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 40 ON PARAMETER SET 20 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 41 ON PARAMETER SET 21 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 42 ON PARAMETER SET 21 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 43 ON PARAMETER SET 22 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 44 ON PARAMETER SET 22 AND COLUMN  2
```

```
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 45 ON PARAMETER SET 23 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   17 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 46 ON PARAMETER SET 23 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 47 ON PARAMETER SET 24 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 48 ON PARAMETER SET 24 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   27 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 49 ON PARAMETER SET 25 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 50 ON PARAMETER SET 25 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 51 ON PARAMETER SET 26 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

```
.....BEGIN SENSITIVITY RUN 52 ON PARAMETER SET 26 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 53 ON PARAMETER SET 27 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   27 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 54 ON PARAMETER SET 27 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   27 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 55 ON PARAMETER SET 28 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 56 ON PARAMETER SET 28 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 57 ON PARAMETER SET 29 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 58 ON PARAMETER SET 29 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 59 ON PARAMETER SET 30 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
```

```
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 60 ON PARAMETER SET 30 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....EXECUTION COMPLETED
```