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

(120110, 120102, 120103, 120105, 120106, 120107, 120109)

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EXECUTIVE SUMMARY

Section 303(d) of the Clean Water Act and the U.S. Environmental Protection Agency's (EPA's) Water Quality Planning and Management Regulations (at Title 40 of the *Code of Federal Regulations* [CFR] Part 130) require states to develop Total Maximum Daily Loads (TMDLs) for impaired waterbodies. A TMDL establishes the amount of a pollutant that a waterbody can assimilate while still meeting the water quality standard for that pollutant. TMDLs provide the scientific basis for a state to establish water quality-based controls to reduce pollution from both point and nonpoint sources to restore and maintain the quality of the state's water resources (USEPA 1991).

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

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

The study area for this TMDL includes seven upper Terrebonne Basin subsegments. The upper Terrebonne Basin is in Point Coupe, Iberville, and West Baton Rouge Parishes. The predominant land use in the impaired subsegments is wetland. The percentage of wetlands in the watersheds ranges from 23.5 percent to 95.4 percent followed by cultivated crops, pasture/hay, and developed. Heavy rainfall events typically occur in March and April as frontal weather systems pass through.

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

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

Subsegment	Subsegment name	Subsegment description	Designated use		
			PCR	SCR	FWP
120102	Bayou Poydras	Headwaters to Bayou Choctaw	N	F	N
120103	Bayou Choctaw	Bayou Poydras confluence to Bayou Grosse Tete	F	F	N
120105	Chamberlin Canal	Chamberlin to Bayou Choctaw	N	N	N
120106	Bayou Plaquemine	Plaquemine Lock to ICWW	F	F	N
120107	Upper Grand River and Lower Flat River	Headwaters to ICWW	F	F	F
120109	Intracoastal Waterway	ICWW Morgan City to Port Allen Route: Port Allen Locks to Bayou Sorrel Locks	N	F	N
120110	Bayou Cholpe	Headwaters to Bayou Choctaw	F	F	N

A water quality model (LA-QUAL) was set up to simulate dissolved oxygen, 25-day carbonaceous biochemical oxygen demand (CBOD), ammonia nitrogen, and nitrite+nitrate. The model was calibrated using data from fieldwork conducted in July 2006. The projection simulation was run at critical flows and temperatures to address seasonality, as the Clean Water Act requires. Reductions of existing point source and nonpoint source loads were required for the projection simulation to show maintenance of the dissolved oxygen standard, 5 milligrams per liter (mg/L). In general, the modeling in this study was consistent with guidance in the Louisiana TMDL technical procedures manual (LDEQ 2005). TMDLs for oxygen-demanding substances (CBOD, ammonia, and sediment oxygen demand [SOD]) were calculated using the projection simulation.

In TMDL development, allowable loads from all pollutant sources that cumulatively amount to no more than the TMDL must be established, thereby providing the basis for establishing water quality-based controls. WLAs were assigned to permitted point source discharges. The LAs include background loadings and human-induced nonpoint sources. An explicit MOS of 10 percent and an FG component of 10 percent were also included.

Table ES-2 presents a summary of the TMDLs for the subsegments addressed in this report. The numeric water quality criterion that applies to the impaired subsegments and was used to calculate the total allowable dissolved oxygen pollutant loads is 5 mg/L. The state's nutrient criteria are narrative and include the following language (LDEQ 2007):

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

Table ES-2. Summary of dissolved oxygen TMDLs, WLAs, LAs, MOSs, and FGs

Subsegment	Oxygen demand (lb/d)				
120102	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.0	1,320.4	0.0	0.0	1,320.4
MOS for WLA	0.0	165.0	0.0	0.0	165.0
FG for WLA	0.0	165.0	0.0	0.0	165.0
LA	185.1	448.5	2.6	133.4	769.7
MOS for LA	23.1	56.1	0.3	16.7	96.2
FG for LA	23.1	56.1	0.3	16.7	96.2
TMDL	231.4	2,211.0	3.3	166.8	2,612.5
Subsegment	**Oxygen demand (lb/d)**				
120103	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	64.1	251.1	57.9	81.1	454.2
MOS for WLA	8.0	31.4	7.2	10.1	56.8
FG for WLA	8.0	31.4	7.2	10.1	56.8
LA	1,555.9	3,442.6	1,406.1	1,969.9	8,374.4
MOS for LA	194.5	430.3	175.8	246.2	1,046.8
FG for LA	194.5	430.3	175.8	246.2	1,046.8
TMDL	2,024.9	4,617.2	1,830.0	2,563.7	11,035.8

Table ES-2. (continued)

Subsegment	Oxygen demand (lb/d)				
120105	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.0	17.9	0.0	0.0	17.9
MOS for WLA	0.0	2.2	0.0	0.0	2.2
FG for WLA	0.0	2.2	0.0	0.0	2.2
LA	84.4	7.1	0.0	3.0	94.6
MOS for LA	10.6	0.9	0.0	0.4	11.8
FG for LA	10.6	0.9	0.0	0.4	11.8
TMDL	105.5	31.3	0.0	3.7	140.6
Subsegment	**Oxygen demand (lb/d)**				
120106	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.0	148.4	108.4	0.0	256.8
MOS for WLA	0.0	18.6	13.6	0.0	32.1
FG for WLA	0.0	18.6	13.6	0.0	32.1
LA	591.0	1,246.6	0.0	203.2	2,040.8
MOS for LA	73.9	155.8	0.0	25.4	255.1
FG for LA	73.9	155.8	0.0	25.4	255.1
TMDL	738.7	1,743.8	135.5	254.0	2,872.0
Subsegment	**Oxygen demand (lb/d)**				
120107	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.0	0.0	0.0	0.0	0.0
MOS for WLA	0.0	0.0	0.0	0.0	0.0
FG for WLA	0.0	0.0	0.0	0.0	0.0
LA	4,052.3	5,873.6	180.9	2,614.4	12,721.2
MOS for LA	506.5	734.2	22.6	326.8	1,590.2
FG for LA	506.5	734.2	22.6	326.8	1,590.2
TMDL	5,065.4	7,342.0	226.1	3,268.0	15,901.6
Subsegment	**Oxygen demand (lb/d)**				
120109	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	87.5	260.2	50.9	85.8	484.4
MOS for WLA	10.9	32.5	6.4	10.7	60.5
FG for WLA	10.9	32.5	6.4	10.7	60.5
LA	8,332.3	6,205.6	659.2	8,166.2	23,363.2
MOS for LA	1,041.5	775.7	82.4	1,020.8	2,920.4
FG for LA	1,041.5	775.7	82.4	1,020.8	2,920.4
TMDL	10,524.7	8,082.2	887.6	10,314.9	29,809.5
Subsegment	**Oxygen demand (lb/d)**				
120110	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.0	0.0	0.0	0.0	0.0
MOS for WLA	0.0	0.0	0.0	0.0	0.0
FG for WLA	0.0	0.0	0.0	0.0	0.0
LA	227.1	593.8	1.9	481.4	1,304.2
MOS for LA	28.4	74.2	0.2	60.2	163.0
FG for LA	28.4	74.2	0.2	60.2	163.0
TMDL	283.9	742.2	2.3	601.8	1,630.3

Table ES-3 presents a summary of the reduction percentages for LAs. Reduction percentages for total oxygen demand ranged from 29 to 68 percent. WLAs are presented in Tables ES-4 through ES-15. There were three facilities with reductions in WLAs.

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

Subsegment	Percent reduction				
	SOD	CBOD	Ammonia	Organic N	Total
120102	0.00	68.00	70.00	67.91	61.24
120103	41.68	63.27	6.24	32.21	49.08
120105	27.26	72.00	0.00	72.08	37.89
120106	0.00	75.01	0.00	75.00	67.92
120107	38.79	60.00	0.00	59.34	54.43
120109	12.80	69.12	28.39	65.74	57.06
120110	0.00	33.77	0.00	33.95	29.11

Table ES-4. WLAs for BOD for subsegment 120102 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LA0003034	001	Alma Plantation, Ltd -Pointe County	17	10	886.70
LA0003034	003	Alma Plantation, Ltd -Pointe County	14	10	730.22
LAG531203	001	Jannet's Trailer Park	0.003	45	1.13
LAG531500	001	Hidden Oaks Mobile Home	0.0045	45	1.69
LAG531697	001	Iberville Parish Council	0.00074	45	0.28
LAG531903	001	Dollar Variety, LLC	0.00006	45	0.02
LAG531990	001	Club Combination	0.001635	45	0.61
LAG540069	001	190 Quick Mart, Inc.	0.003017	45	1.13
LAG540785	001	West Baton Rouge Ph Nat Gas & Water	0.012	45	4.51
LAG540858	001	Ewing's of New Roads, Inc.	0.00636	45	2.39
LAG540898	001	State Capitol Dragway NHRA	0.04	45	15.02
LAG750164	001	V&G Laundry	0.0001	45	0.04

Table ES-5. WLAs for BOD for subsegment 120103 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LA0092878	001	Westside Coating Svc, Inc.	0.0008	45	0.3
LA0103586	001	Basf Catalysts, LLC - Port Allen Works	0.0012	45	0.45
LA0117773	001	Fluker's Cricket Farm, Inc.	0.003	45	1.13
LA0117773	002	Fluker's Cricket Farm, Inc.	0.0006	45	0.23
LAG480101	001	United ANCO Insulations, Inc.	0.0015	45	0.56
LAG480165	001	TMI Enterprise, LLC	0.000952	45	0.36
LAG480175	001	Specialty Application Services, Inc. - Port Allen Facility	0.00006	45	0.02
LAG480179		Oil Mop, LLC	0.0004	45	0.15
LAG480182	001	Industrial Parts Specialties	0.0015	45	0.56
LAG480386		Westside Galvanizing Svcs	0.0008	45	0.3
LAG480404		Asphalt Products Unlimited	0.0001	45	0.04
LAG480538	001	Shaw SSS Fabricators, Inc.	0.0005	45	0.19
LAG480538	001	Shaw SSS Fabricators, Inc.	0.0005	45	0.19
LAG480538	002	Shaw SSS Fabricators, Inc.	0.0015	45	0.56
LAG530126		Matrix Food Store	0.005	45	1.88

Table ES-5. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG530361	001	MCBR Management Co, Inc. - McDonald's Restaurant	0.005	45	1.88
LAG530639		Westerner Motel	0.005	45	1.88
LAG531054		Heyman-Moore Transport, Inc.	0.005	45	1.88
LAG531121		Waffle House Miller Properties	0.00255	45	0.96
LAG531384		Bergeron's Boudin & Cajun	0.00036	45	0.14
LAG531623		Circle K, Inc.	0.00091	45	0.34
LAG531726		American General Investments - Cracker Barrel	0.0015	45	0.56
LAG540027		Krawdaddys Deli & Restaurant	0.01444	45	5.41
LAG540089		415 Trailer Park	0.00925	45	3.47
LAG540205		Cajun Country Campground, Inc.	0.00975	45	3.66
LAG540264		Days Inn of Port Allen	0.01835	45	6.89
LAG540342		West Baton Rouge Parish Work Release Gulf Coast Correct	0.009	45	3.38
LAG540387	001	Iberville Ph School Board	0.01502	45	5.64
LAG540510		MMI of Louisiana - Holiday Inn West	0.0072	45	2.7
LAG540584		Pointe Coupee Sew Svc	0.0236	45	8.86
LAG540775		W Baton Rouge Ph School Board	0.0068	45	2.55
LAG540851		Acadian Mobile Home Park	0.00432	45	1.62
LAG540856		West Baton Rouge Par Sch Bd	0.025	45	9.39
LAG541036	001	West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	0.0069	45	2.59
LAG541036	001	West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	0.0069	45	2.59
LAG541036		West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	0.0069	45	2.59
LAG541051		Sunrise Village Mobile Home Park - Izzy & Elliot, LLC	0.0108	45	4.06
LAG541218		Legacy Trailer Park	0.0075	45	2.82
LAG541313		Mo-Dad Utilities, LLC - West Lake Subdivision	0.0248	45	9.31
LAG560148		West Baton Rouge Par Nat Gas & Wtr - Blanchard Estates	0.01095	30	2.74
LAG560149		West Baton Rouge Parish Police Detention and Law Enforcement Center	0.032434	30	8.12
LAG560189		West Baton Rouge Par Utilities Dept - Roseland Trace Subd	0.019	30	4.76
LAG570331		West Baton Rouge Natural Gas and Water Systems - Mulatto Bend WWTF	0.006382	23	1.31
LAG750279		Hulcher SVC INC	0.00006	45	0.02
LAG750453		Louisiana Scrap Metal	0.0008	45	0.3

Table ES-6. WLAs for BOD for subsegment 120105 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LA0121185	002	Air Liquide America Lp	0.00002	45	0.01
LAG540581	001	Pointe Coupee Ph School Board - Rougon Elementary School	0.00599	45	2.25
LAG540581		Pointe Coupee Ph School Board - Rougon Elementary School	0.014	45	5.26
LAG530786		West Baton Rouge Par Sch Bd - Chamberlin Elem. School	0.005	45	1.88
LAG540783		West Baton Rouge Ph Natural Gas & Wtr Sys - Ashland Plantation WWTP	0.049	45	18.4
LAG540784		West Baton Rouge Comm Cntr	0.005	45	1.88

Table ES-7. WLAs for BOD for subsegment 120106 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG531065	001	Iberville Parish Parks & Rec	0.005	45	1.88
LAG531912	001	Eagle Warehouse	0.00004	45	0.02
LAG531912	002	Eagle Warehouse	0.00036	45	0.14
LAG540102		TesH-Green Acres	0.024	45	9.01
LAG540118	001	River West Medical Ctr	0.007777	45	2.92
LAG540384	001	Crescent Elementary School	0.0026	45	0.98
LAG570359	001	Iberville Parish Council - Patureau Lane Sewer	0.065	15	8.14

Table ES-8. WLAs for ammonia for subsegment 120106 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH_3 (mg/L)	NH_3 (lb/d)
LA0020648	001	Plaquemine, City of	1.5	2	25.04

Table ES-9. WLAs for BOD for subsegment 120109 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG531231		Poplar Grove Chapel Missionary Baptist Church	0.005	45	1.88
LAG531239		Player's Pub and Family Hair Care	0.000875	45	0.33
LAG531362		LA DOTD	0.0025	45	0.94
LAG531616		Thomas Pipe & Steel, LLC	0.0003	45	0.11
LAG531756		Dollar Distributing, Inc.	0.0041	45	1.54
LAG532260	003	Distribution International	0.005	45	1.88
LAG532260	101	Distribution International	0.0006	45	0.23
LAG532260	102	Distribution International	0.0015	45	0.56
LAG540359		Best Western Magnolia Manor	0.016525	45	6.21
LAG540627	001	S&R Mobile Home Park	0.015	45	5.63
LAG540786	001	West Baton Rouge Ph Nat Gas & Wtr - Oak Alley Subdivision	0.0156	45	5.86
LAG540921		West Baton Rouge Ph Nat Gas & Wtr - Brittany Estates	0.006	45	2.25

Table ES-9. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG540994	001	Chinese Inn	0.00575	45	2.16
LAG540994		Chinese Inn	0.00575	45	2.16
LAG540998	001	West Baton Rouge Work Release Ctr	0.00974	45	3.66
LAG540998		West Baton Rouge Work Release Ctr	0.00974	45	3.66
LAG541105		Cash's Casino, Inc.	0.00908	45	3.41
LAG560147		West Baton Rouge Natural Gas And Water Systems - Riverside Dr	0.035	30	8.76
LAG560191	001	West Baton Rouge Ph Nat Gas & Wtr	0.036	30	9.01
LAG560192	001	Timberlane Trailer Park Oxidation Pond	0.0384	30	9.61
LAG560237		West Baton Rouge Parish - Freeman Lane WWTP	0.007	30	1.75
LAG570151	001	West Baton Rouge Nat Gas And Wtr - Fairview Estates Subdivision	0.09	15	11.27
LAG570355	001	West Baton Rouge Parish Utilities, Beaulieu STP No. 1	0.0096	15	1.2
LAG570356	001	Choctaw MHP, LLC	0.0609	15	7.62
LAG750188		Corps of Engineers - Bayou Sorrel Lock	0.00008	45	0.03

Table ES-10. WLAs for ammonia for subsegment 120109 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH_3 (mg/L)	NH_3 (lb/d)
LA0068241		Brusly, Town of	0.22298	5.46	10.16
LAG480319	101S	Criterion Catalyst & Technologies	0.00054	0.068	0.00

Table ES-11. WLAs for nutrients for subsegment 120102 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LAG531203	001	Jannet's Trailer Park	0.003	0.58	0.18
LAG531500	001	Hidden Oaks Mobile Home	0.0045	0.86	0.26
LAG531697	001	Iberville Parish Council	0.00074	0.14	0.04
LAG531903	001	Dollar Variety, LLC	0.00006	0.01	0
LAG531990	001	Club Combination	0.001635	0.31	0.1
LAG540069	001	190 Quick Mart, Inc.	0.003017	0.58	0.18
LAG540785	001	West Baton Rouge Ph Nat Gas & Water	0.012	2.3	0.7
LAG540858	001	Ewing's of New Roads, Inc.	0.00636	1.22	0.37
LAG540898	001	State Capitol Dragway NHRA	0.04	7.68	2.34
LAG750164	001	V&G Laundry	0.0001	0.02	0.01

[a]The effluent concentrations were assumed to be 7 mg/L for total phosphorus and 23 mg/L for total nitrogen.

Table ES-12. WLAs for nutrients for subsegment 120103 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0092878	001	Westside Coating Svc, Inc.	0.0008	0.15	0.05
LA0103586	001	BASF Catalysts, LLC - Port Allen Works	0.0012	0.23	0.07
LA0117773	001	Fluker's Cricket Farm, Inc.	0.003	0.58	0.18
LA0117773	002	Fluker's Cricket Farm, Inc.	0.0006	0.12	0.04

Table ES-12. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LAG480101	001	United ANCO Insulations, Inc.	0.0015	0.29	0.09
LAG480165	003	TMI Enterprise, LLC	0.000952	0.18	0.06
LAG480175	001	Specialty Application Services, Inc. - Port Allen Facility	0.00006	0.01	0
LAG480179		Oil Mop, LLC	0.0004	0.08	0.02
LAG480182	001	Industrial Parts Specialties	0.0015	0.29	0.09
LAG480386		Westside Galvanizing Svcs	0.0008	0.15	0.05
LAG480404		Asphalt Products Unlimited	0.0001	0.02	0.01
LAG480538	001	Shaw SSS Fabricators, Inc.	0.0005	0.1	0.03
LAG480538	001	Shaw SSS Fabricators, Inc.	0.0005	0.1	0.03
LAG480538	002	Shaw SSS Fabricators, Inc.	0.0015	0.29	0.09
LAG530126		Matrix Food Store	0.005	0.96	0.29
LAG530361	001	MCBR Management Co, Inc. - McDonald's Restaurant	0.005	0.96	0.29
LAG530639		Westerner Motel	0.005	0.96	0.29
LAG531054		Heyman-Moore Transport, Inc.	0.005	0.96	0.29
LAG531121		Waffle House Miller Properties	0.00255	0.49	0.15
LAG531384		Bergeron's Boudin & Cajun	0.00036	0.07	0.02
LAG531623		Circle K, Inc.	0.00091	0.17	0.05
LAG531726		American General Investments - Cracker Barrel	0.0015	0.29	0.09
LAG540027		Krawdaddys Deli & Restaurant	0.01444	2.76	0.84
LAG540089		415 Trailer Park	0.00925	1.78	0.54
LAG540205		Cajun Country Campground, Inc.	0.00975	1.87	0.57
LAG540264		Days Inn of Port Allen	0.01835	3.52	1.07
LAG540342		West Baton Rouge Parish Work Release Gulf Coast Correct	0.009	1.73	0.53
LAG540387	001	Iberville Ph School Board	0.01502	2.88	0.88
LAG540510		MMI of Louisiana - Holiday Inn West	0.0072	1.38	0.42
LAG540584		Pointe Coupee Sew Svc	0.0236	4.53	1.38
LAG540775		W Baton Rouge Ph School Board	0.0068	1.31	0.4
LAG540851		Acadian Mobile Home Park	0.00432	0.83	0.25
LAG540856		West Baton Rouge Par Sch Bd	0.025	4.8	1.46
LAG541036	001	West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	0.0069	1.32	0.4
LAG541036	001	West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	0.0069	1.32	0.4
LAG541036		West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	0.0069	1.32	0.4
LAG541051		Sunrise Village Mobile Home Park - Izzy & Elliot, LLC	0.0108	2.07	0.63
LAG541218		Legacy Trailer Park	0.0075	1.44	0.44
LAG541313		Mo-Dad Utilities, LLC - West Lake Subdivision	0.0248	4.76	1.45
LAG560148		West Baton Rouge Par Nat Gas & Wtr - Blanchard Estates	0.01095	2.1	0.64
LAG560149		West Baton Rouge Parish Police Detention	0.032434	6.23	1.89

Table ES-12. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
		and Law Enforcement Center			
LAG560189		West Baton Rouge Par Utilities Dept - Roseland Trace Subd	0.019	3.65	1.11
LAG570331		West Baton Rouge Natural Gas and Water Systems - Mulatto Bend WWTF	0.006382	1.31	0.4
LAG750279		Hulcher SVC INC	0.00006	0.01	0
LAG750453		Louisiana Scrap Metal	0.0008	0.15	0.05

[a]The effluent concentrations were assumed to be 7 mg/L for total phosphorus and 23 mg/L for total nitrogen.

Table ES-13. WLAs for nutrients for subsegment 120105 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0121185	002	Air Liquide America LP	0.00002	0	0
LAG540581	001	Pointe Coupee Ph School Board - Rougon Elementary School	0.00599	1.15	0.35
LAG540581		Pointe Coupee Ph School Board - Rougon Elementary School	0.014	2.69	0.82
LAG530786		West Baton Rouge Par Sch Bd - Chamberlin Elem. School	0.005	0.96	0.29
LAG540783		West Baton Rouge Ph Natural Gas & Wtr Sys - Ashland Plantation WWTP	0.049	9.41	2.86
LAG540784		West Baton Rouge Comm Cntr	0.005	0.96	0.29

[a]The effluent concentrations were assumed to be 7 mg/L for total phosphorus and 23 mg/L for total nitrogen.

Table ES-14. WLAs for nutrients for subsegment 120106 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LAG531065	001	Iberville Parish Parks & Rec	0.005	0.96	0.29
LAG531912	001	Eagle Warehouse	0.00004	0.01	0
LAG531912	002	Eagle Warehouse	0.00036	0.07	0.02
LAG540102		TesH-Green Acres	0.024	4.61	1.4
LAG540118	001	River West Medical Ctr	0.007777	1.49	0.45
LAG540384	001	Crescent Elementary School	0.0026	0.5	0.15
LAG570359	001	Iberville Parish Council - Patureau Lane Sewer	0.065	12.48	3.8

[a]The effluent concentrations were assumed to be 7 mg/L for total phosphorus and 23 mg/L for total nitrogen.

Table ES-15. WLAs for nutrients for subsegment 120109 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0047554	001	Sid Richardson Carbon Co.	0.002	0.38	0.12
LA0052124		Intercontinental Terminals Co.	0.0005	0.1	0.03
LA0068241		Brusly, Town of	0.22298	42.8	13.03
LA0068501	001	West Baton Rouge Ph-Westport	0.3	57.58	17.53
LA0080888	001	Westway Trading Company - Port Allen Terminal	0.0001	0.02	0.01
LA0080888	004	Westway Trading Company - Port Allen Terminal	0.00005	0.01	0
LA0083721		Trinity Marine Products	0.005	0.96	0.29
LA0083721		Trinity Marine Products	0.0015	0.29	0.09

Table ES-15. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0047554	001	Sid Richardson Carbon Co.	0.002	0.38	0.12
LA0052124		Intercontinental Terminals Co.	0.0005	0.1	0.03
LA0068241		Brusly, Town of	0.22298	42.8	13.03
LA0068501	001	West Baton Rouge Ph-Westport	0.3	57.58	17.53
LA0080888	001	Westway Trading Company - Port Allen Terminal	0.0001	0.02	0.01
LA0080888	004	Westway Trading Company - Port Allen Terminal	0.00005	0.01	0
LA0083721		Trinity Marine Products	0.005	0.96	0.29
LA0083721		Trinity Marine Products	0.0015	0.29	0.09
LA0083721		Trinity Marine Products	0.01	1.92	0.58
LA0085821	201	EXXON Port Allen Lube Plant	0.003	0.58	0.18
LA0104159	001	Trans Chem - Port Allen	0.00034	0.07	0.02
LA0104159		Trans Chem - Port Allen	0.00034	0.07	0.02
LA0107719	002	Nalco Company	0.0002	0.04	0.01
LA0108685	002	Andrews Transports	0.0005	0.1	0.03
LA0114324	001	Community Coffee Co., LLC	0.002	0.38	0.12
LA0114324	001	Community Coffee Co., LLC	0.002	0.38	0.12
LAG110020	001	Construction Specialists	0.002	0.38	0.12
LAG380068		Iberville Par Waterworks	0.005	0.96	0.29
LAG480189	001	Reliant Technologies	0.000072	0.01	0
LAG480217	004	Southern Scrap Xpress	0.000309	0.06	0.02
LAG480319	101S	Criterion Catalyst & Technologies	0.00054	0.1	0.03
LAG480319		Southern Ionics, Inc.	0.003	0.58	0.18
LAG480441	002	Wal-Mart Stores, Inc.	0.005	0.96	0.29
LAG480540		US Dept of Energy Strategic Petroleum Reserve - Bayou Choctaw Storage Facility	0.00083	0.16	0.05
LAG530594		Waffle House #1016	0.005	0.96	0.29
LAG530620		Ourso Trailer Park Brusly	0.005	0.96	0.29
LAG531026	001	Brusly Apts	0.002	0.38	0.12
LAG531056	001	Greater Btr Port Commission	0.0005	0.1	0.03
LAG531056	002	Greater Btr Port Commission	0.0005	0.1	0.03
LAG531095	001	Lyons Specialty Co, Inc. & Aa Vending	0.005	0.96	0.29
LAG531095		Lyons Specialty Co., Inc.	0.003162	0.61	0.18
LAG531167	001	Leo Wallace Daiquiries	0.00105	0.2	0.06
LAG531167		Leo Wallace Daiquiries	0.00105	0.2	0.06
LAG531168	001	Lucky Dollar Casino	0.005	0.96	0.29
LAG531169	001	Port Allen Inn Suites	0.0048	0.92	0.28
LAG531231		Poplar Grove Chapel Missionary Baptist Church	0.005	0.96	0.29
LAG531239		Player's Pub and Family Hair Care	0.000875	0.17	0.05
LAG531362		LA DOTD	0.0025	0.48	0.15
LAG531616		Thomas Pipe & Steel, LLC	0.0003	0.06	0.02
LAG531756		Dollar Distributing, Inc.	0.0041	0.79	0.24
LAG532260	003	Distribution International	0.005	0.96	0.29

Table ES-15. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LAG532260	101	Distribution International	0.0006	0.12	0.04
LAG532260	102	Distribution International	0.0015	0.29	0.09
LAG540359		Best Western Magnolia Manor	0.016525	3.17	0.97
LAG540627	001	S&R Mobile Home Park	0.015	2.88	0.88
LAG540786	001	West Baton Rouge Ph Nat Gas & Wtr - Oak Alley Subdivision	0.0156	2.99	0.91
LAG540921		West Baton Rouge Ph Nat Gas & Wtr - Brittany Estates	0.006	1.15	0.35
LAG540994	001	Chinese Inn	0.00575	1.1	0.34
LAG540994		Chinese Inn	0.00575	1.1	0.34
LAG540998	001	West Baton Rouge Work Release Ctr	0.00974	1.87	0.57
LAG540998		West Baton Rouge Work Release Ctr	0.00974	1.87	0.57
LAG541105		Cash's Casino, Inc.	0.00908	1.74	0.53
LAG560147		West Baton Rouge Natural Gas And Water Systems - Riverside Dr	0.035	6.72	2.04
LAG560191	001	West Baton Rouge Ph Nat Gas & Wtr	0.036	6.91	2.1
LAG560192	001	Timberlane Trailer Park Oxidation Pond	0.0384	7.37	2.24
LAG560237		West Baton Rouge Parish - Freeman Lane WWTP	0.007	1.34	0.41
LAG570151	001	West Baton Rouge Nat Gas And Wtr - Fairview Estates Subdivision	0.09	17.27	5.26
LAG570355	001	West Baton Rouge Parish Utilities, Beaulieu STP No. 1	0.0096	1.84	0.56
LAG570356	001	Choctaw MHP, LLC	0.0609	11.69	3.56
LAG750188		Corps of Engineers - Bayou Sorrel Lock	0.00008	0.02	0

[a]The effluent concentrations were assumed to be 7 mg/L for total phosphorus and 23 mg/L for total nitrogen.

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

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

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Appendix C: Model Vector Diagrams
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1 INTRODUCTION

Section 303(d) of the Clean Water Act and the U.S. Environmental Protection Agency's (EPA's) Water Quality Planning and Management Regulations (at Title 40 of the *Code of Federal Regulations* [CFR] Part 130) require states to develop Total Maximum Daily Loads (TMDLs) for waterbodies that are not supporting their designated uses, even if pollutant sources have implemented technology-based controls. A TMDL establishes the maximum allowable load (in mass per unit time) of a pollutant that a waterbody is able to assimilate while still supporting its designated uses. The maximum allowable load is determined on the basis of the relationship between pollutant sources and in-stream water quality. A TMDL provides the scientific basis for a state to establish water quality-based controls to reduce pollution from both point and nonpoint sources to restore and maintain the quality of the state's water resources (USEPA 1991).

Monitoring data collected by the Louisiana Department of Environmental Quality (LDEQ) indicate that observed dissolved oxygen levels sometimes do not meet the state's water quality criteria for seven subsegments in the upper Terrebonne Basin. The impaired designated uses for the subsegments are primary and secondary contact recreation, and fish and wildlife propagation. The subsegments are either fully supporting (F) or not supporting (N) the designated uses. Table 1-1 presents information from Louisiana's 2004 section 303(d) list for the seven subsegments. All the subsegments have the suspected cause of *unknown sources*, which indicates that various sources might be present but not enough data are available to identify them.

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

Subsegment	Subsegment name	Subsegment description	Designated use		
			PCR	SCR	FWP
120102	Bayou Poydras	Headwaters to Bayou Choctaw	N	F	N
120103	Bayou Choctaw	Bayou Poydras confluence to Bayou Grosse Tete	F	F	N
120105	Chamberlin Canal	Chamberlin to Bayou Choctaw	N	N	N
120106	Bayou Plaquemine	Plaquemine Lock to ICWW	F	F	N
120107	Upper Grand River and Lower Flat River	Headwaters to ICWW	F	F	F
120109	Intracoastal Waterway	ICWW Morgan City to Port Allen Route: Port Allen Locks to Bayou Sorrel Locks	N	F	N
120110	Bayou Cholpe	Headwaters to Bayou Choctaw	F	F	N

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

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

- Volume and velocity of water flowing in the waterbody
- Climate and season
- The type and number of organisms in the waterbody
- Altitude
- Dissolved or suspended solids
- Amount of nutrients in the water
- Organic waste
- Riparian vegetation
- Ground water inflow

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

2 BACKGROUND INFORMATION

2.1 General Description

The study region consisted of seven subsegments in the upper portion of the Terrebonne Basin. They include Bayou Cholpe – Headwaters to Bayou Choctaw (subsegment 120110), Bayou Poydras (subsegment 120102), Chamberlin Canal (subsegment 120105), Bayou Choctaw (subsegment 120103), ICWW – Morgan City to Port Allen Route (subsegment 120109), Bayou Plaquemine – Plaquemine Lock to ICWW (subsegment 120106), and Upper Grand River and Lower Flat River – Headwaters to ICWW (subsegment 120107). In Louisiana, the upper Terrebonne Basin includes portions of Point Coupe, Iberville, and West Baton Rouge Parishes. Table 2-1 lists the parish and approximate drainage area of each subsegment and Figure 2-1 shows the locations of the subsegments. The watershed's U.S. Geological Survey (USGS) hydrologic unit code is 08070300.

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

Subsegment name	Subsegment	Parish	Area (mi^2)	Area (km^2)
Bayou Poydras	120102	Point Coupee, West Baton Rouge	22	56
Bayou Choctaw	120103	Iberville, West Baton Rouge	55	144
Chamberlin Canal	120105	West Baton Rouge	41	107
Bayou Plaquemine	120106	Iberville	2	6
Upper Grand River and Lower Flat River	120107	Iberville	88	229
Intracoastal Waterway	120109	Iberville, West Baton Rouge	64	166
Bayou Cholpe	120110	Iberville, Point Coupee	25	63

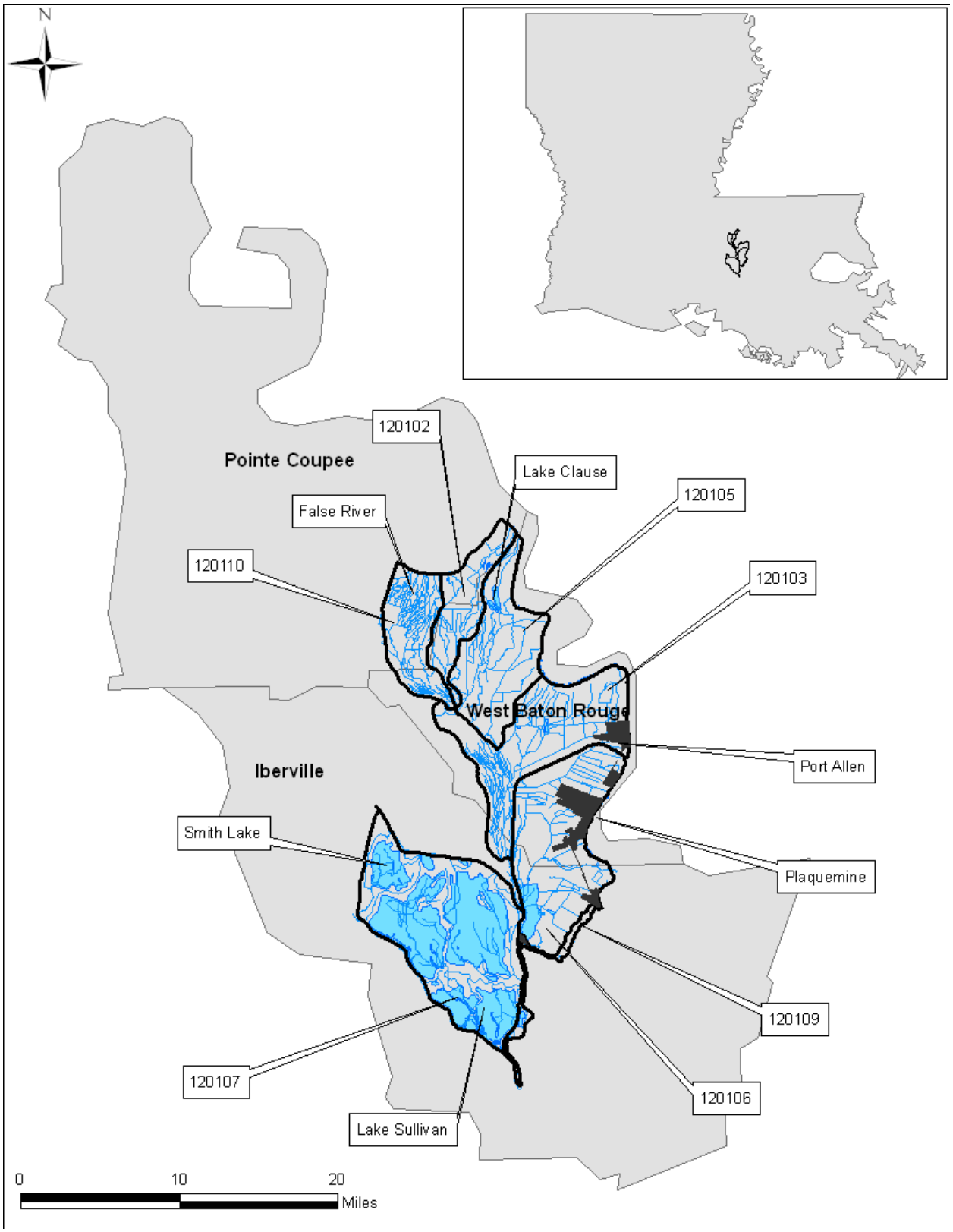

Figure 2-1. Locations of upper Terrebonne Basin subsegments.

2.2 Land Use

Land use data were obtained from the 2001 USGS National Land Cover Dataset (NLCD; Table 2-2 and Figure 2-2). The predominant land use in the impaired subsegments is wetland. The percentage of wetlands in the watersheds ranges from 23.5 percent to 95.4 percent followed by cultivated crops, pasture/hay, and developed. There is very little barren, forest, or grassland/shrub land in any of the seven subsegments. Subsegments 120103, 120109, 120106 have larger areas of developed land. Subsegment 120107 is almost entirely wetland and open water. It has only just less than 1 percent developed area, which consists of highways.

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

Land use	Percent of total area						
	Bayou Cholpe (120110)	Bayou Poydras (120102)	Chamberlin Canal (120105)	Bayou Choctaw (120103)	Intracoastal Waterway (120109)	Bayou Plaquemine (120106)	Upper Grand River and Lower Flat River (120107)
Water	0.58	0.15	0.04	0.69	2.66	5.56	2.44
Developed	2.04	5.90	3.29	11.33	13.13	22.35	0.72
Barren	0.01	0.00	0.00	0.02	0.02	0.00	0.00
Forest	0.01	0.00	0.01	0.01	0.01	0.01	0.00
Grassland/shrub	0.31	0.53	0.69	0.97	0.54	0.24	0.45
Pasture/hay	8.01	22.57	10.57	7.18	4.37	19.63	0.97
Cultivated crops	35.27	47.33	56.05	29.56	32.58	23.65	0.00
Wetlands	53.76	23.51	29.35	50.24	46.68	28.56	95.42
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00

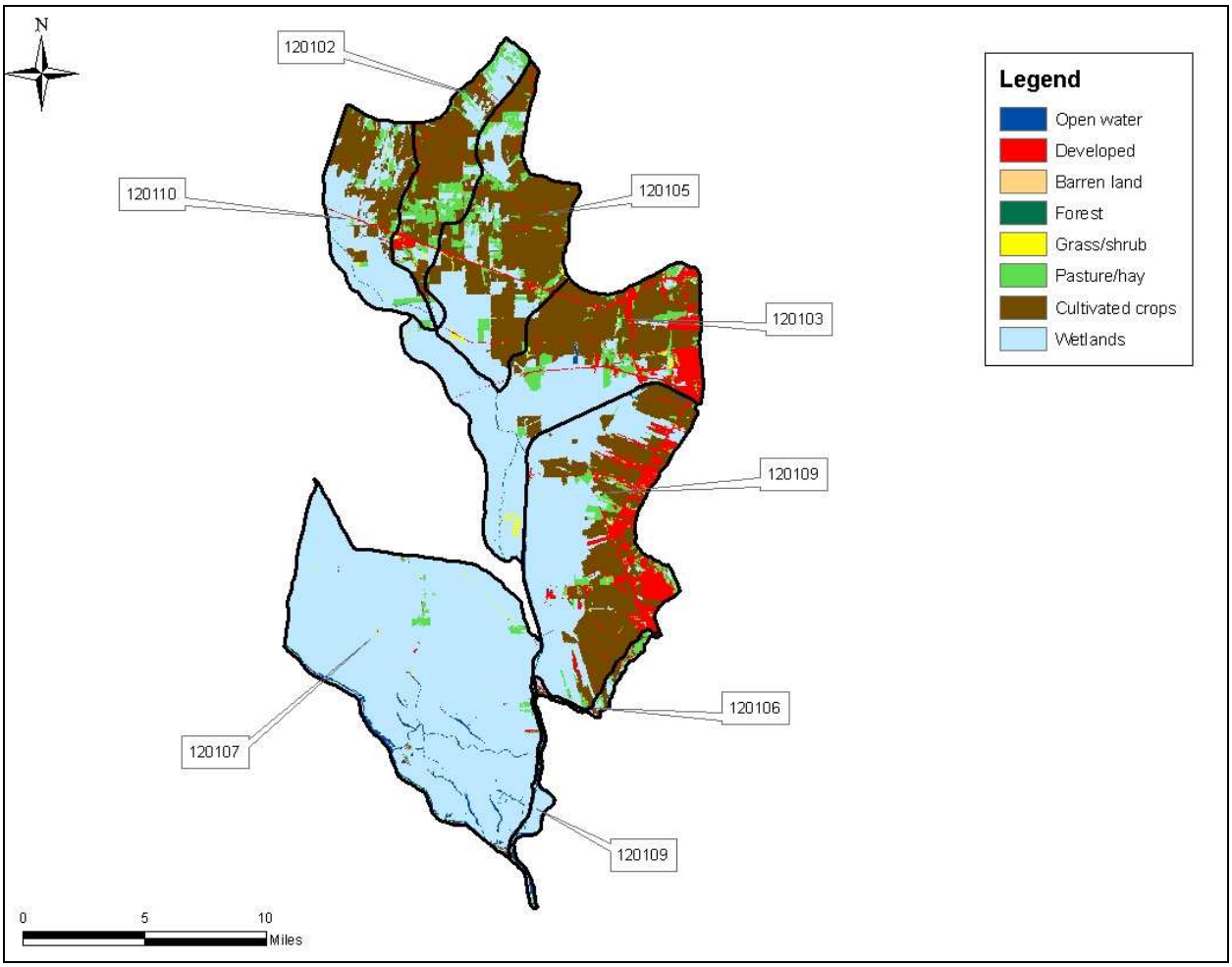

Figure 2-2. Land use in the upper Terrebonne Basin subsegments.

2.3 Hydrologic Setting

The USGS online hydrology database (NWISWeb) does not contain any stations with flow data for the listed subsegments that are impaired for dissolved oxygen and nutrients. Because reversing flows occur at times throughout the Terrebonne Basin, there are very few USGS flow gages in the Terrebonne Basin. The only flow gages in the Terrebonne Basin that have a long period of flows are on streams that are not similar to any of the streams in the subsegments.

2.4 Designated Uses and Water Quality Criteria

Louisiana's 2004 section 303(d) list indicates that the seven listed subsegments—all assigned a use of primary or secondary contact recreation, or fish and wildlife propagation—do not meet applicable water quality standards because of unknown sources. Primary contact recreation includes any recreational or other water contact involving full-body exposure to water and a considerable probability of ingesting water. Examples of this use are swimming and water skiing. Secondary contact recreation involves activities like fishing, wading, or boating, where water contact is accidental or incidental and there is a minimal chance of ingesting appreciable amounts of water. Fish and wildlife propagation includes the use of water for aquatic habitat,

food, resting, reproduction, cover, or travel corridors for any indigenous wildlife and aquatic life species associated with the aquatic environment.

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

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

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

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

2.5 Identification of Sources

2.5.1 Point Sources

LDEQ stores permit information using internal databases. LDEQ generated a list of point source discharges in the study area by using the TEMPO and PTS databases. Information on point source discharges to the listed subsegments was obtained from the Electronic Document Management System (EDMS) database at LDEQ. Data were pulled from EDMS and analyzed for the TMDLs. Each facility was evaluated on the basis of its discharges and permit limits to determine whether the facility would be used in developing the TMDLs. The evaluation yielded 11 permitted point source discharges in subsegment 120102, 40 in subsegment 120103, 7 in subsegment 120105, 7 in subsegment 120106, and 50 permitted point source discharges in subsegment 120109. Because of the large number of permits, they are listed in Appendix A.

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

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

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

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

In Louisiana, there are two ways that an MS4 can be identified as a regulated, small MS4. This category includes all cities within UAs and any small MS4 area outside UAs with a population of at least 10,000 and a population density of at least 1,000 people per square mile (LDEQ 2002). In the Terrebonne Basin, the city of Port Allen is a regulated, small MS4. Table 2-3 presents MS4 information by subsegment for MS4 discharges to impaired subsegments in the Terrebonne Basin.

Table 2-3. MS4 information for the Terrebonne Basin

NPDES permit number	Authority	Discharge subsegment	Subsegment name	Urban area (acres)
LAR0410102	Port Allen	120103	Bayou Choctaw	1,405
LAR0410102	Port Allen	120109	Intracoastal Waterway	426

2.5.2 Nonpoint Sources

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

3 CHARACTERIZATION OF EXISTING WATER QUALITY

3.1 Water Quality Data

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

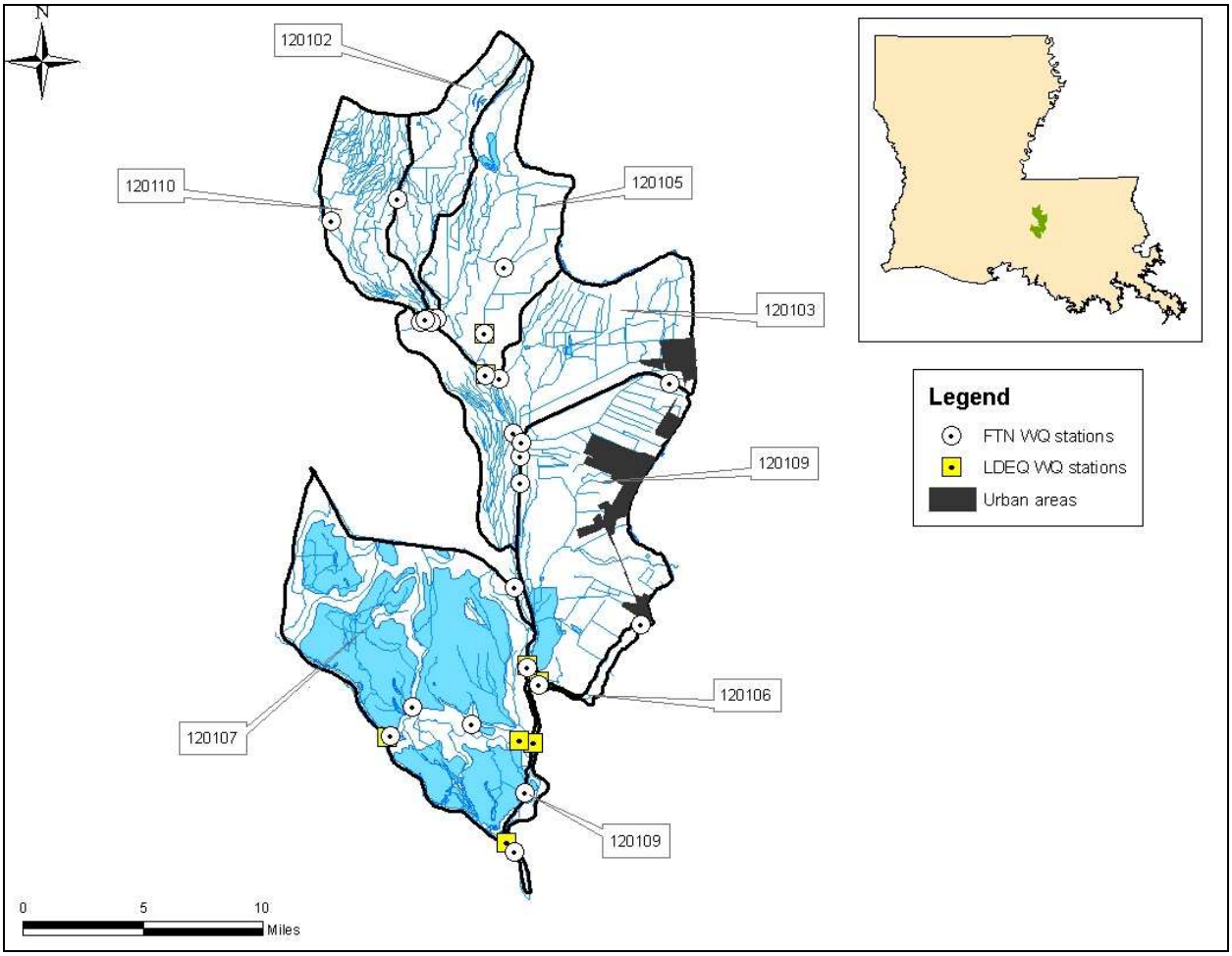

Figure 3-1. Locations of monitoring stations in the upper Terrebonne Basin.

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

current profiler (ADCP) instrument. Plots of the continuous monitoring data are presented in Appendix A.

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

Subsegment	Station	Station name	Period of record	No. of obs.	DO min. (mg/L)	DO max. (mg/L)	DO ave. (mg/L)
120103	336	Bayou Poydras	1/15/91–3/9/04	91	0.64	5.63	24.42
120102	969	Bayou Choctaw west of Port Allen, LA	2/1/00–4/13/04	15	2.69	6.40	9.15
120105	971	Chamberlin Canal	2/1/00–4/13/04	15	2.48	5.96	8.78
120106	972	Bayou Plaquemine	2/1/00–4/13/04	15	2.90	6.30	9.53
120107	973	Upper Grand River, LA	2/1/00–4/13/04	15	3.43	6.33	10.00
120109	80	Lower Grand River at Bayou Sorrel, LA	1/1/67–5/11/98	350	0.27	12.20	5.88
120109	417	Bayou Plaquemine, LA	1/1/63–12/1/66	47	1.90	12.00	6.87
120109	975	Intracoastal Waterway near Indian Village	2/1/00–4/13/04	15	5.30	7.35	10.23
120110	976	Bayou Chalpin	2/1/00–4/13/04	15	3.22	6.26	9.23

Note: DO = dissolved oxygen

Table 3-2. Data types from July 2006 monitoring

Subsegment	Site ID	Site name	Data types collected
120102	120102-A	Bayou Poydras north of Erwinville, LA	In situ, sample, flow, cross section
120102	969	Bayou Poydras	In situ, sample, flow, cross section, contin.
120103	120103-A	Tributary to Bayou Choctaw	In situ, sample, flow
120103	120103-B	Bayou Tommy at LA Hwy 76	In situ, sample, flow
120103	120103-C	Bayou Choctaw NW of Intracoastal Waterway	In situ, flow, cross section
120103	336	Bayou Choctaw west of Port Allen, LA	In situ, sample, flow, cross section
120105	120105-A	Chamberlin Canal at US Hwy 190	In situ, sample, flow, cross section
120105	120105-B	Stumpy Bayou at LA Hwy 76	In situ, sample, flow
120105	971	Chamberlin Canal	In situ, sample, flow, cross section
120106	120106-A	Bayou Plaquemine at Plaquemine, LA	In situ, sample, flow, cross section
120106	972	Bayou Plaquemine	In situ, sample, cross section
120107	120107-A	Superior Canal NE of Grand River, LA	In situ, sample, flow
120107	120107-B	Upper Grand River near levee	In situ, sample, flow, cross section
120107	120107-C	Lower Flat River E of Grand River, LA	In situ, sample, flow, cross section
120107	973	Upper Grand River, LA	In situ, sample, flow
120109	120109-A	Intracoastal Waterway at Port Allen, LA	In situ, sample, flow
120109	120109-B	Intracoastal Waterway W of Brusly, LA	In situ, sample, cross section
120109	120109-C	Intracoastal Waterway upstream of Bayou Choctaw	In situ, cross section
120109	120109-D	Intracoastal Waterway W of Brusly, LA	In situ, cross section
120109	120109-E	Bayou Grosse Tete NW of Intracoastal Waterway	In situ, sample, flow
120109	975	Intracoastal Waterway near Indian Village	In situ, flow, cross section, contin.
120109	120109-F	Intracoastal Waterway south of The Parks, LA	In situ, sample, flow, cross section
120109	80	Lower Grand River at Bayou Sorrel, LA	In situ, sample
120110	120110-A	Bayou Cholpe west of Erwinville	In situ, sample, flow, cross section
120110	976	Bayou Chalpin	In situ, sample, flow, cross section

3.2 Comparison of Observed Data to Criteria

Water quality monitoring data were obtained from LDEQ and during the July 2006 sampling event. Table 3-3 provides a summary of the LDEQ dissolved oxygen data available for stations in the model subsegments. Each station has between 15 and 350 data points. Eight of the nine stations had dissolved oxygen observations below the water quality criterion of 5 mg/L.

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

LDEQ station	Subsegment	Period of record	No. of samples	DO min. (mg/L)	DO ave. (mg/L)	DO max. (mg/L)	Percent < 5 mg/L
336	120103	1/15/91–3/9/04	91	0.64	5.63	24.42	40.7
969	120102	2/1/00–4/13/04	15	2.69	6.40	9.15	26.7
971	120105	2/1/00–4/13/04	15	2.48	5.96	8.78	33.3
972	120106	2/1/00–4/13/04	15	2.90	6.30	9.53	26.7
973	120107	2/1/00–4/13/04	15	3.43	6.33	10.00	33.3
80	120109	1/1/67–5/11/98	350	0.27	12.20	5.88	34.0
417	120109	1/1/63–12/1/66	47	1.90	12.00	6.87	13.0
975	120109	2/1/00–4/13/04	15	5.30	7.35	10.23	0.0
976	120110	2/1/00–4/13/04	15	3.22	6.26	9.23	26.7

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

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

Subsegment	# of locations	Range of sample depths	# of samples	DO min. (mg/L)	DO max. (mg/L)	DO ave. (mg/L)	Percent samples < 5 mg/L
120102	2	1–1.2	2	0.3	3.6	2.0	100
120103	4	0.5–12	7	1.8	13.0	4.9	71
120105	3	0.3–2.5	3	2.0	3.8	2.9	100
120106	2	2.5–9	5	2.0	13.0	7.8	40
120107	4	2.5–5	5	3.1	5.5	3.9	80
120109	8	1.5–19	33	1.5	6.2	4.7	52
120110	2	0.9–3	2	4.0	4.5	4.2	100

4 LOW DISSOLVED OXYGEN MODEL SETUP AND CALIBRATION

4.1 Model Setup

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

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

Only the main stems of the systems were explicitly simulated and thus segmented for modeling purposes. Segmentation refers to separating a waterbody into smaller computational units. Segmentation occurred around major hydrological features, such as tributaries. Tributaries were represented through boundary condition designation. Appendix C contains diagrams of the model segmentations and stream kilometers.

4.2 Calibration Period

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

4.3 Model Options (Data Type 2)

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

4.4 Program Constants (Data Type 3)

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

4.5 Temperature Correction of Kinetics (Data Type 4)

Data type 4 contains factors used for temperature correction in rate equations. The temperature correction factors used in the model were consistent with the *Standard Operating*

Procedure for Louisiana TMDL Technical Procedures (LTP) when these factors were available (LDEQ 2005). The correction factors were as follows:

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

4.6 Hydraulics and Dispersion (Data Types 9 and 10)

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

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

where:

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

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

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

Model reach	Width (m)	Depth (m)
1	1	0.25
2	10	1
3	4	0.3
4	8	0.6
5	34	2.4
6	2	0.1
7	5	0.3
8	47	2.8
9	76	3
10	76	3
11	30	1.1
12	80	3.2
13	88	1.1
14	64	0.8
15	62	1.3
16	70	2.5

4.7 Initial Conditions (Data Type 11)

Initial conditions were set for temperature, dissolved oxygen, nitrate+nitrite, and chlorophyll *a* using observed water quality data, while ammonia data were set to a constant. Because LA-

QUAL is a steady-state model, the initial conditions affect only the number of iterations needed to reach steady-state conditions. Setting initial conditions on the basis of observed data reduces the amount of iterations the model must perform to reach steady-state.

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

4.8 Water Quality Kinetics (Data Types 12 and 13)

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

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

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

where:

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

The input files that list these values are provided in Appendix D. Table 4-2 summarizes these rates. The CBOD decay rate varied per subsegment and was based on the measured $CBOD_3$, $CBOD_5$, $CBOD_{12}$, $CBOD_{20}$, and $CBOD_{25}$ data. Slight adjustments were made in some reaches to better simulate observed water quality. The SOD was calibrated in the model and varied per subsegment reach. SOD was calibrated after the CBOD levels were finalized. The SOD rates changed iteratively until modeled dissolved oxygen concentrations agreed well with measured water column dissolved oxygen concentrations.

Table 4-2. Water quality kinetics rates

Program constant	Value range
Background SOD ($g/m^2/d$)	0.5–3.0
BOD #1 decay rate (aerobic) (1/d)	0.1–0.3
Ammonia decay rate (1/d)	0.01–0.02
Ammonia nitrogen oxidation rate (1/d)	0.2

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

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

4.10 Nonpoint Source Loads (Data Type 19)

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

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

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

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

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

These data types account for flow and water quality from point sources discharging into the listed waterbodies. The model included 20 permitted outflows, plus 81 permitted sources that were combined because of lack of discharge pathway information. There were also 7 tributaries that were included as input in these data types. The input file that lists inputs and their associated flows and concentrations are provided in Table 4-3. Data from tributaries was developed from observed data. Permit design flows were used as the flows from permits. Dissolved oxygen was set to 5.0 for point sources. Permitted BOD discharge limits were used for CBOD. Organic nitrogen and nitrate+nitrite were assumed from surrounding waters. Ammonia was assumed to be 1.5 mg/L for smaller point sources. For larger point sources, ammonia was taken from permit limits or from discharge monitoring reports. When point sources were combined, flow-weighted averages were used.

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

Point source/ tributary name	Flow (mgd)	DO (mg/L)	CBOD (mg/L)	Org N (mg/L)	Ammonia (mg/L)	NO_3+NO_2 (mg/L)	Comment
Bayou Grosse Tete #2	31.0187	2.0	3.5	1.1	0.03	0.0	tributary
LA0003034	0.0000	5.0	10.0	1.5	1.50	2.0	Point source in 120102
LA0020648	1.5000	5.0	30.0	1.6	4.00	1.6	Point source in 120106

Table 4-3. (continued)

Point source/ tributary name	Flow (mgd)	DO (mg/L)	CBOD (mg/L)	Org N (mg/L)	Ammonia (mg/L)	NO3+NO2 (mg/L)	Comment
LA0068501	0.3000	5.0	10.0	1.1	4.00	10.0	Point source in 120109
LA0121185	0.0000	5.0	45.0	1.2	1.50	2.0	Point source in 120105
LAG530786	0.0050	5.0	45.0	1.2	1.50	2.0	Point source in 120105
LAG531065	0.0050	5.0	45.0	1.6	1.50	1.6	Point source in 120106
LAG531362	0.0010	5.0	45.0	1.1	1.50	1.7	Point source in 120109
LAG531616	0.0003	5.0	45.0	1.1	1.50	10.0	Point source in 120109
LAG531697	0.0007	5.0	45.0	1.5	1.50	2.0	Point source in 120102
LAG531903	0.0001	5.0	45.0	1.5	1.50	2.0	Point source in 120102
LAG531990	0.0016	5.0	45.0	1.5	1.50	2.0	Point source in 120102
LAG540069	0.0030	5.0	45.0	1.5	1.50	2.0	Point source in 120102
LAG540102	0.0240	5.0	30.0	1.6	1.50	1.6	Point source in 120106
LAG540783	0.0490	5.0	30.0	2.0	1.50	0.5	Point source in 120105
LAG540784	0.0026	5.0	30.0	1.6	1.50	1.6	Point source in 120106
LAG540785	0.0120	5.0	30.0	1.5	1.50	2.0	Point source in 120102
LAG540858	0.0064	5.0	30.0	1.5	1.50	2.0	Point source in 120102
LAG540898	0.0400	5.0	30.0	1.5	1.50	2.0	Point source in 120102
LAG560237	0.0070	5.0	20.0	1.1	1.50	1.7	Point source in 120109
LAG570359	0.0650	5.0	10.0	1.6	1.50	1.6	Point source in 120106
PS 120103	0.4296	3.1	27.7	1.5	1.50	0.1	Combined point sources
PS 120109#1	0.4419	5.0	14.8	1.1	3.50	10.0	Combined point sources
PS 120109#2	0.0239	5.0	30.9	1.1	1.50	10.0	Combined point sources
PS 120109#3	0.1038	5.0	15.2	1.1	1.50	10.0	Combined point sources
Stumpy Bayou	8.6594	3.6	9.9	1.0	0.10	1.0	tributary
Superior Canal	22.1008	5.5	10.0	1.4	0.10	0.0	tributary
Unknown Trib #1	5.3636	3.1	4.3	1.5	1.50	0.1	tributary
Unknown Trib #2	0.0023	6.3	3.0	1.2	0.10	1.5	tributary
Unknown Trib #3	0.0023	6.3	3.0	1.2	0.10	1.5	tributary
Unknown Trib #4	0.0023	6.3	3.0	1.2	0.10	1.5	tributary

4.13 Calibration and Model Results

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

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

calibration plot.

Table 4-4. Existing oxygen demand

Subsegment	Oxygen demand (lb/d)				
	SOD	CBOD	Ammonia	Organic N	Total
120102	199.20	5,019.34	10.88	519.80	5,749.22
120103	3,334.59	11,854.07	1,874.69	3,632.45	20,695.79
120105	145.09	72.12	0.04	13.35	230.60
120106	702.45	6,967.81	271.02	1,016.12	8,957.40
120107	8,275.14	18,355.12	226.09	8,037.71	34,894.07
120109	11,944.14	25,363.59	1,205.64	29,793.79	68,307.16
120110	265.57	1,120.68	2.35	911.12	2,299.72

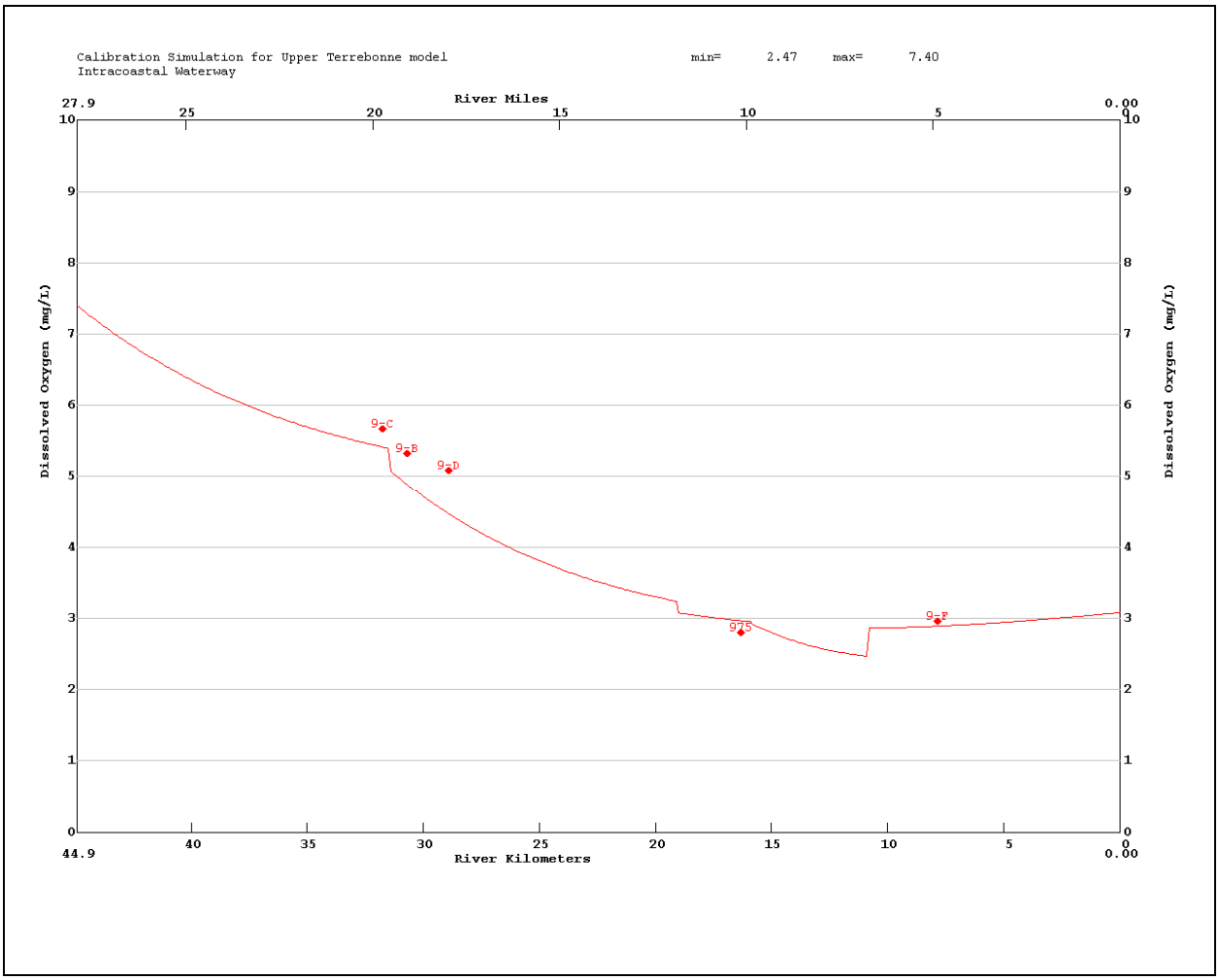

Figure 4.1. Calibration plot for dissolved oxygen in subsegment 120109.

5 LOW DISSOLVED OXYGEN MODEL PROJECTION

EPA's regulations at 40 CFR 130.7 require the determination of TMDLs to take into account critical conditions for stream flow, loading, and water quality parameters. The calibrated model was used to project water quality for critical conditions. The identification of critical conditions and the model input data used for critical conditions are discussed in this section. Appendix F contains the output files for the subsegments in this TMDL. The output files list the input parameters.

5.1 Identification of Critical Conditions

The LDEQ LTP defines critical conditions in terms of flow and temperature. Critical flow conditions are simulated by using the annual 7Q10 flow or 0.1 cubic feet per second (cfs), whichever is higher. In addition, all point sources are assumed to be discharging at design capacity. The LTP specifies that the critical temperature should be determined by calculating the 90th percentile seasonal temperature for the waterbody being modeled, if data are available. Otherwise 30 degrees Celsius (ºC) was used.

5.2 Temperature Inputs

A critical temperature of 30 °C was used in the TMDL simulation. Because these subsegments have a year-round standard for dissolved oxygen, a winter projection simulation was not performed. As discussed above, the most critical time of year for meeting a constant dissolved oxygen standard is the period of high temperatures and low flows.

5.3 Headwater and Tributary Inputs

The inputs for the headwater and tributaries for the projection simulation were based on guidance in the LTP. According to the LTP, the critical flow rates for summer should be set to either the 7Q10 flow or 0.1 cfs, whichever is higher. Because 7Q10 values for the waterbodies are not available, the headwater and tributary flows used in calibrating the model were used as headwater and tributary inputs because all flows were higher than 0.1 cfs. CBOD levels from headwaters and tributaries were reduced until modeled dissolved oxygen met the criteria. Dissolved oxygen from headwaters and tributaries were set to the water quality criterion of 5 mg/L or the observed concentration, whichever was greater. The ammonia levels were low from both the headwaters and tributaries; therefore, the ammonia inputs were not changed from the calibration values.

5.4 Point Source Inputs

Input point sources were kept at the same flow and concentrations as the calibration inputs. If necessary, input concentrations were reduced to keep the dissolved oxygen concentration above 5 mg/L.

5.5 Model Results for Projection

Several steps were used to develop the reduction percentages for oxygen demand. The TMDL was calculated by first iteratively reducing SOD. After meeting the dissolved oxygen criterion by reducing SOD, the CBOD reduction rate was calculated by the SOD/CBOD relationship ($SOD =$

$a \times \sqrt{CBOD}$). Slight adjustments were made to the SOD reduction rate, and an updated CBOD reduction rate was calculated. This process was repeated until the optimal reduction rates were determined.

To meet the dissolved oxygen standard, 5.0 mg/L, total oxygen demand must be reduced between 29 and 68 percent. This percentage reduction for nonpoint source loads represents a percentage of the entire nonpoint source loading, not a percentage of the man-made nonpoint source loading. The nonpoint source loads in this report were not divided between natural and man-made because it would be difficult to estimate natural nonpoint source loads. Plots of predicted water quality for the projection are presented in Appendix G.

6 TMDL DEVELOPMENT

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

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

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

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

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

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

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

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

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

The other way is to explicitly specify a portion of the TMDL as the MOS and use the remainder for allocations. For this analysis, the MOS is explicit: 10 percent of each targeted TMDL was reserved as the MOS to account for any uncertainty in the TMDL. Using 10 percent of the TMDL load provides an additional level of protection to the designated uses of the subsegments of concern.

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

6.1 Dissolved Oxygen TMDLs

The dissolved oxygen TMDLs are presented as oxygen demand from CBOD, ammonia nitrogen, and SOD, and they were derived using the LA-QUAL model. A summary of the TMDLs is presented in Table 6-1. The TMDLs were calculated from SOD, CBOD, ammonia, and organic nitrogen from nonpoint source model inputs, tributary flows, incremental flows, and background. Table 6-2 presents a summary of the reduction percentages for LAs; two reductions were necessary for WLAs. The reduction percentages for total oxygen demand ranged from 28 to 68 percent.

Because of the large number of permits in the upper Terrebonne Basin, WLAs are presented in Appendix H. WLAs for were calculated using monthly average permit limits, when applicable. If a permit does not have a monthly average permit limit, the weekly average permit limit was used. If the facility has neither a monthly nor a weekly limit, the daily maximum limit was used to calculate loads. Table 6-3 lists the individual WLAs for the MS4s identified in Section 2.5.

Three WLAs represent reductions to permit limits. The City of Plaquemine (LA0020648) has reduced ammonia and the oxygen demand in the discharge. In addition, the oxygen demand of the discharge from the Ashland Plantation (LAG540783) was reduced, while the discharge of dissolved oxygen was increased to 6.0 mg/L. The oxygen demand of the discharge from the Alma Plantation (LA0003034) was reduced, while the discharge of dissolved oxygen was increased to 5.0 mg/L. The WLAs for these facilities can be seen in Tables 6-4 through 6-10.

Table 6-1. Summary of dissolved oxygen TMDLs, WLAs, LAs, MOSs, and FGs

Subsegment	Oxygen demand (lb/d)				
120102	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.0	1,320.4	0.0	0.0	1,320.4
MOS for WLA	0.0	165.0	0.0	0.0	165.0
FG for WLA	0.0	165.0	0.0	0.0	165.0
LA	185.1	448.5	2.6	133.4	769.7
MOS for LA	23.1	56.1	0.3	16.7	96.2
FG for LA	23.1	56.1	0.3	16.7	96.2
TMDL	231.4	2,211.0	3.3	166.8	2,612.5
Subsegment	**Oxygen demand (lb/d)**				
120103	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	64.1	251.1	57.9	81.1	454.2
MOS for WLA	8.0	31.4	7.2	10.1	56.8
FG for WLA	8.0	31.4	7.2	10.1	56.8
LA	1,555.9	3,442.6	1,406.1	1,969.9	8,374.4
MOS for LA	194.5	430.3	175.8	246.2	1,046.8
FG for LA	194.5	430.3	175.8	246.2	1,046.8
TMDL	2,024.9	4,617.2	1,830.0	2,563.7	11,035.8
Subsegment	**Oxygen demand (lb/d)**				
120105	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.0	17.9	0.0	0.0	17.9
MOS for WLA	0.0	2.2	0.0	0.0	2.2
FG for WLA	0.0	2.2	0.0	0.0	2.2
LA	84.4	7.1	0.0	3.0	94.6
MOS for LA	10.6	0.9	0.0	0.4	11.8
FG for LA	10.6	0.9	0.0	0.4	11.8
TMDL	105.5	31.3	0.0	3.7	140.6
Subsegment	**Oxygen demand (lb/d)**				
120106	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.0	148.4	108.4	0.0	256.8
MOS for WLA	0.0	18.6	13.6	0.0	32.1
FG for WLA	0.0	18.6	13.6	0.0	32.1
LA	591.0	1,246.6	0.0	203.2	2,040.8
MOS for LA	73.9	155.8	0.0	25.4	255.1
FG for LA	73.9	155.8	0.0	25.4	255.1
TMDL	738.7	1,743.8	135.5	254.0	2,872.0
Subsegment	**Oxygen demand (lb/d)**				
120107	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.0	0.0	0.0	0.0	0.0
MOS for WLA	0.0	0.0	0.0	0.0	0.0
FG for WLA	0.0	0.0	0.0	0.0	0.0
LA	4,052.3	5,873.6	180.9	2,614.4	12,721.2
MOS for LA	506.5	734.2	22.6	326.8	1,590.2
FG for LA	506.5	734.2	22.6	326.8	1,590.2
TMDL	5,065.4	7,342.0	226.1	3,268.0	15,901.6

Table 6-1. (continued)

Subsegment	Oxygen demand (lb/d)				
120109	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	87.5	260.2	50.9	85.8	484.4
MOS for WLA	10.9	32.5	6.4	10.7	60.5
FG for WLA	10.9	32.5	6.4	10.7	60.5
LA	8,332.3	6,205.6	659.2	8,166.2	23,363.2
MOS for LA	1,041.5	775.7	82.4	1,020.8	2,920.4
FG for LA	1,041.5	775.7	82.4	1,020.8	2,920.4
TMDL	10,524.7	8,082.2	887.6	10,314.9	29,809.5
Subsegment	**Oxygen demand (lb/d)**				
120110	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.0	0.0	0.0	0.0	0.0
MOS for WLA	0.0	0.0	0.0	0.0	0.0
FG for WLA	0.0	0.0	0.0	0.0	0.0
LA	227.1	593.8	1.9	481.4	1,304.2
MOS for LA	28.4	74.2	0.2	60.2	163.0
FG for LA	28.4	74.2	0.2	60.2	163.0
TMDL	283.9	742.2	2.3	601.8	1,630.3

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

Subsegment	Percent reduction				
	SOD	**CBOD**	**Ammonia**	**Organic N**	**Total**
120102	0.00	68.00	70.00	67.91	61.24
120103	41.68	63.27	6.24	32.21	49.08
120105	27.26	72.00	0.00	72.08	37.89
120106	0.00	75.01	0.00	75.00	67.92
120107	38.79	60.00	0.00	59.34	54.43
120109	12.80	69.12	28.39	65.74	57.06
120110	0.00	33.77	0.00	33.95	29.11

Table 6-3. Summary of WLAs for MS4s in the upper Terrebonne Basin

Subsegment	Urban Area (UA)	NPDES	MS4 area (acres)	Pollutant	MS4 (lb/d)
120103	Port Allen	LAR0410102	1,405.01	BOD	177.2232
120103	Port Allen	LAR0410102	1,405.01	Organic nitrogen	23.4196
120103	Port Allen	LAR0410102	1,405.01	Ammonia	16.7173
120103	Port Allen	LAR0410102	1,405.01	SOD	80.0942
120109	Port Allen	LAR0410102	425.60	BOD	81.4602
120109	Port Allen	LAR0410102	425.60	Organic nitrogen	24.7567
120109	Port Allen	LAR0410102	425.60	Ammonia	1.9984
120109	Port Allen	LAR0410102	425.60	SOD	109.3770

Table 6-4. WLAs for BOD for subsegment 120102 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LA0003034	001	Alma Plantation, Ltd -Pointe County	17	10	886.70
LA0003034	003	Alma Plantation, Ltd -Pointe County	14	10	730.22
LAG531203	001	Jannet's Trailer Park	0.003	45	1.13
LAG531500	001	Hidden Oaks Mobile Home	0.0045	45	1.69
LAG531697	001	Iberville Parish Council	0.00074	45	0.28
LAG531903	001	Dollar Variety, LLC	0.00006	45	0.02
LAG531990	001	Club Combination	0.001635	45	0.61
LAG540069	001	190 Quick Mart, Inc.	0.003017	45	1.13
LAG540785	001	West Baton Rouge Ph Nat Gas & Water	0.012	45	4.51
LAG540858	001	Ewing's of New Roads, Inc.	0.00636	45	2.39
LAG540898	001	State Capitol Dragway NHRA	0.04	45	15.02
LAG750164	001	V&G Laundry	0.0001	45	0.04

Table 6-5. WLAs for BOD for subsegment 120103 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LA0092878	001	Westside Coating Svc, Inc.	0.0008	45	0.3
LA0103586	001	Basf Catalysts, LLC - Port Allen Works	0.0012	45	0.45
LA0117773	001	Fluker's Cricket Farm, Inc.	0.003	45	1.13
LA0117773	002	Fluker's Cricket Farm, Inc.	0.0006	45	0.23
LAG480101	001	United ANCO Insulations, Inc.	0.0015	45	0.56
LAG480165	001	TMI Enterprise, LLC	0.000952	45	0.36
LAG480175	001	Specialty Application Services, Inc. - Port Allen Facility	0.00006	45	0.02
LAG480179		Oil Mop, LLC	0.0004	45	0.15
LAG480182	001	Industrial Parts Specialties	0.0015	45	0.56
LAG480386		Westside Galvanizing Svcs	0.0008	45	0.3
LAG480404		Asphalt Products Unlimited	0.0001	45	0.04
LAG480538	001	Shaw SSS Fabricators, Inc.	0.0005	45	0.19
LAG480538	001	Shaw SSS Fabricators, Inc.	0.0005	45	0.19
LAG480538	002	Shaw SSS Fabricators, Inc.	0.0015	45	0.56
LAG530126		Matrix Food Store	0.005	45	1.88
LAG530361	001	MCBR Management Co, Inc. - McDonald's Restaurant	0.005	45	1.88
LAG530639		Westerner Motel	0.005	45	1.88
LAG531054		Heyman-Moore Transport, Inc.	0.005	45	1.88
LAG531121		Waffle House Miller Properties	0.00255	45	0.96
LAG531384		Bergeron's Boudin & Cajun	0.00036	45	0.14
LAG531623		Circle K, Inc.	0.00091	45	0.34
LAG531726		American General Investments - Cracker Barrel	0.0015	45	0.56
LAG540027		Krawdaddys Deli & Restaurant	0.01444	45	5.41
LAG540089		415 Trailer Park	0.00925	45	3.47
LAG540205		Cajun Country Campground, Inc.	0.00975	45	3.66
LAG540264		Days Inn of Port Allen	0.01835	45	6.89

Table 6-5. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG540342		West Baton Rouge Parish Work Release Gulf Coast Correct	0.009	45	3.38
LAG540387	001	Iberville Ph School Board	0.01502	45	5.64
LAG540510		MMI of Louisiana - Holiday Inn West	0.0072	45	2.7
LAG540584		Pointe Coupee Sew Svc	0.0236	45	8.86
LAG540775		W Baton Rouge Ph School Board	0.0068	45	2.55
LAG540851		Acadian Mobile Home Park	0.00432	45	1.62
LAG540856		West Baton Rouge Par Sch Bd	0.025	45	9.39
LAG541036	001	West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	0.0069	45	2.59
LAG541036	001	West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	0.0069	45	2.59
LAG541036		West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	0.0069	45	2.59
LAG541051		Sunrise Village Mobile Home Park - Izzy & Elliot, LLC	0.0108	45	4.06
LAG541218		Legacy Trailer Park	0.0075	45	2.82
LAG541313		Mo-Dad Utilities, LLC - West Lake Subdivision	0.0248	45	9.31
LAG560148		West Baton Rouge Par Nat Gas & Wtr - Blanchard Estates	0.01095	30	2.74
LAG560149		West Baton Rouge Parish Police Detention and Law Enforcement Center	0.032434	30	8.12
LAG560189		West Baton Rouge Par Utilities Dept - Roseland Trace Subd	0.019	30	4.76
LAG570331		West Baton Rouge Natural Gas and Water Systems - Mulatto Bend WWTF	0.006382	23	1.31
LAG750279		Hulcher SVC INC	0.00006	45	0.02
LAG750453		Louisiana Scrap Metal	0.0008	45	0.3

Table 6-6. WLAs for BOD for subsegment 120105 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LA0121185	002	Air Liquide America Lp	0.00002	45	0.01
LAG540581	001	Pointe Coupee Ph School Board - Rougon Elementary School	0.00599	45	2.25
LAG540581		Pointe Coupee Ph School Board - Rougon Elementary School	0.014	45	5.26
LAG530786		West Baton Rouge Par Sch Bd - Chamberlin Elem. School	0.005	45	1.88
LAG540783		West Baton Rouge Ph Natural Gas & Wtr Sys - Ashland Plantation WWTP	0.049	45	18.4
LAG540784		West Baton Rouge Comm Cntr	0.005	45	1.88

Table 6-7. WLAs for BOD for subsegment 120106 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG531065	001	Iberville Parish Parks & Rec	0.005	45	1.88
LAG531912	001	Eagle Warehouse	0.00004	45	0.02
LAG531912	002	Eagle Warehouse	0.00036	45	0.14
LAG540102		TesH-Green Acres	0.024	45	9.01
LAG540118	001	River West Medical Ctr	0.007777	45	2.92
LAG540384	001	Crescent Elementary School	0.0026	45	0.98
LAG570359	001	Iberville Parish Council - Patureau Lane Sewer	0.065	15	8.14

Table 6-8. WLAs for ammonia for subsegment 120106 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH_3 (mg/L)	NH_3 (lb/d)
LA0020648	001	Plaquemine, City of	1.5	2	25.04

Table 6-9. WLAs for BOD for subsegment 120109 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG531231		Poplar Grove Chapel Missionary Baptist Church	0.005	45	1.88
LAG531239		Player's Pub and Family Hair Care	0.000875	45	0.33
LAG531362		LA DOTD	0.0025	45	0.94
LAG531616		Thomas Pipe & Steel, LLC	0.0003	45	0.11
LAG531756		Dollar Distributing, Inc.	0.0041	45	1.54
LAG532260	003	Distribution International	0.005	45	1.88
LAG532260	101	Distribution International	0.0006	45	0.23
LAG532260	102	Distribution International	0.0015	45	0.56
LAG540359		Best Western Magnolia Manor	0.016525	45	6.21
LAG540627	001	S&R Mobile Home Park	0.015	45	5.63
LAG540786	001	West Baton Rouge Ph Nat Gas & Wtr - Oak Alley Subdivision	0.0156	45	5.86
LAG540921		West Baton Rouge Ph Nat Gas & Wtr - Brittany Estates	0.006	45	2.25
LAG540994	001	Chinese Inn	0.00575	45	2.16
LAG540994		Chinese Inn	0.00575	45	2.16
LAG540998	001	West Baton Rouge Work Release Ctr	0.00974	45	3.66
LAG540998		West Baton Rouge Work Release Ctr	0.00974	45	3.66
LAG541105		Cash's Casino, Inc.	0.00908	45	3.41
LAG560147		West Baton Rouge Natural Gas And Water Systems - Riverside Dr	0.035	30	8.76
LAG560191	001	West Baton Rouge Ph Nat Gas & Wtr	0.036	30	9.01
LAG560192	001	Timberlane Trailer Park Oxidation Pond	0.0384	30	9.61
LAG560237		West Baton Rouge Parish - Freeman Lane WWTP	0.007	30	1.75
LAG570151	001	West Baton Rouge Nat Gas And Wtr - Fairview Estates Subdivision	0.09	15	11.27

Table 6-9. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG570355	001	West Baton Rouge Parish Utilities, Beaulieu Stp No. 1	0.0096	15	1.2
LAG570356	001	Choctaw Mhp, LLC	0.0609	15	7.62
LAG750188		Corps of Engineers - Bayou Sorrel Lock	0.00008	45	0.03

Table 6-10. WLAs for ammonia for subsegment 120109 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH_3 (mg/L)	NH_3 (lb/d)
LA0068241		Brusly, Town of	0.22298	5.46	10.16
LAG480319	101S	Criterion Catalyst & Technologies	0.00054	0.068	0.00

6.1.1 Seasonal Variation

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

6.1.2 Sensitivity Analysis

A sensitivity analysis was performed on the model parameters using the sensitivity function built into LA-QUAL. LA-QUAL automatically changed the requested parameters by a set amount while keeping all other parameters constant. The calibration scenario was used as the baseline for the sensitivity analysis. For the analysis, all parameters were varied by ±30 percent. The results for dissolved oxygen and BOD are shown in Table 6-11. Result plots are shown in Appendix H. Changes to the stream reaeration, stream velocity, and background SOD had the largest influence on dissolved oxygen levels. Stream dispersion had no effect on dissolved oxygen.

Table 6-11. Results of sensitivity analysis

		BOD (mg/L)						DO (mg/L)					
		BOD aerobic decay rate	BOD settling rate	Stream dispersion	Stream reaeration	Background SOD	Stream velocity	BOD aerobic decay rate	BOD settling rate	Stream dispersion	Stream reaeration	Background SOD	Stream velocity
120102	-30%	27.42	26.12	26.12	26.15	26.13	24.36	0.30	0.30	0.30	0.30	0.30	0.30
	base	26.12	26.12	26.12	26.12	26.12	26.12	0.30	0.30	0.30	0.30	0.30	0.30
	30%	24.89	26.12	26.12	26.11	26.12	27.12	0.30	0.30	0.30	0.30	0.30	0.30

Table 6-11. (continued)

		BOD (mg/L)						DO (mg/L)					
		BOD aerobic decay rate	BOD settling rate	Stream dispersion	Stream reaeration	Background SOD	Stream velocity	BOD aerobic decay rate	BOD settling rate	Stream dispersion	Stream reaeration	Background SOD	Stream velocity
120103	-30%	7.16	6.64	6.64	6.64	6.64	6.01	2.77	2.06	2.06	1.59	2.94	1.84
	base	6.64	6.64	6.64	6.64	6.64	6.64	2.06	2.06	2.06	2.06	2.06	2.06
	30%	6.19	6.64	6.64	6.64	6.64	7.03	1.74	2.06	2.06	2.81	1.65	2.37
120105	-30%	9.26	6.84	6.84	6.84	6.84	4.90	2.10	2.10	2.10	2.09	2.10	2.10
	base	6.84	6.84	6.84	6.84	6.84	6.84	2.10	2.10	2.10	2.10	2.10	2.10
	30%	5.36	6.84	6.84	6.84	6.84	8.58	2.10	2.10	2.10	2.10	2.10	2.10
120106	-30%	4.93	4.9	4.93	4.93	4.93	4.93	3.75	2.70	2.70	1.67	3.01	2.92
	base	4.93	4.93	4.93	4.93	4.93	4.93	2.70	2.70	2.70	2.70	2.70	2.70
	30%	4.93	4.93	4.93	4.93	4.93	4.93	1.91	2.70	2.70	3.51	2.39	2.74
120107	-30%	9.58	7.89	7.89	7.89	7.89	5.98	3.30	3.07	3.07	2.27	3.30	2.91
	base	7.89	7.89	7.89	7.89	7.89	7.89	3.07	3.07	3.07	3.07	3.07	3.07
	30%	6.49	7.89	7.89	7.89	7.89	9.16	2.55	3.07	3.07	3.30	2.58	3.26
120109	-30%	2.13	1.74	1.74	1.74	1.74	1.32	2.26	2.06	2.06	1.34	2.62	2.59
	base	1.74	1.74	1.74	1.74	1.74	1.74	2.06	2.06	2.06	2.06	2.06	2.06
	30%	1.43	1.74	1.74	1.74	1.74	2.03	2.02	2.06	2.06	2.96	1.70	1.86
120110	-30%	4.65	4.62	4.62	4.62	4.62	4.59	4.10	4.10	4.10	3.85	4.10	4.10
	base	4.62	4.62	4.62	4.62	4.62	4.62	4.10	4.10	4.10	4.10	4.10	4.10
	30%	4.60	4.62	4.62	4.62	4.62	4.64	4.10	4.10	4.10	4.10	4.10	4.10

6.1.3 Ammonia Toxicity Analysis

An analysis was performed on the model input and modeled results to determine whether the modeled ammonia concentrations exceeded EPA criteria for ammonia toxicity (USEPA 1999). The EPA criteria are dependent on temperature and pH. Temperature was taken from the model output. Because pH is not included in the model, it was obtained from levels observed during the July 2006 monitoring event. The resulting criteria and the model-predicted ammonia concentrations are presented in Table 6-12. These concentrations were below the EPA ammonia toxicity criteria and show that the criteria will not be exceeded during critical conditions. The ammonia toxicity calculations are included in Appendix I.

Table 6-12. Predicted ammonia concentration and calculated critical criteria

Subsegment	Predicted ammonia (mg/L)		Calculated critical criteria (mg/L)	
	Minimum	Maximum	Minimum	Maximum
120102	1.15	1.43	1.68	1.68
120103	0.15	0.80	0.48	1.21
120105	0.01	0.66	1.32	1.32
120106	0.00	0.16	0.62	0.62

Table 6-12. (continued)

Subsegment	Predicted ammonia (mg/L)		Calculated critical criteria (mg/L)	
	Minimum	Maximum	Minimum	Maximum
120107	0.03	0.04	1.87	1.87
120109	0.02	0.06	1.37	1.74
120110	0.03	0.03	1.61	1.61

6.2 Nutrient TMDLs

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

Louisiana does not have numeric water quality standards for nutrients; therefore, water quality targets were derived. Water quality data were collected from non-nutrient-impaired subsegments in the Terrebonne Basin. The data included total phosphorus, nitrate+nitrite, and TKN. The nitrate+nitrite and TKN were summed to obtain the total nitrogen concentration. Table 6-13 presents the average concentrations by monitoring location for the non-impaired subsegments. The minimum, mean, and maximum are presented for total phosphorus and total nitrogen.

Table 6-13. Nutrient concentrations in non-impaired subsegments

Subsegment	Subsegment name	Site ID	Total P (mg/L)	NO2+NO3 (mg/L)	TKN (mg/L)	Total N (mg/L)
120107	Upper Grand River and Lower Flat River	973	0.22	0.82	0.93	1.75
120108	False River	335	0.33	0.17	1.44	1.60
120110	Bayou Cholpe	976	0.22	0.17	0.97	1.14
120206	Grand Bayou and Little Grand Bayou	82	0.52	0.37	1.39	1.76
		Minimum	0.22	0.17	0.93	1.14
		Mean	0.32	0.38	1.18	1.56
		Maximum	0.52	0.82	1.44	1.76

The data in Table 6-13 were compared with the observed data for the nutrient-impaired subsegments in Table 6-14. Mean concentrations in the nutrient listed subsegments are at or below the mean concentrations for the non-impaired subsegments, except for total nitrogen in subsegment 120109. The nutrient listed subsegments show a wider variation in the minimum and maximum concentrations. Because the means in listed subsegments were less than those in non-listed subsegments in all but subsegment 120109, no reduction in LAs was necessary for those subsegments. For subsegment 120109, a 12 percent reduction in total nitrogen is necessary to achieve water quality similar to the non-listed subsegments.

Because of the lack of flow data for the Terrebonne Basin, the monthly water yield (runoff in millimeters) was used to obtain TMDL loadings. The monthly water yields for the Central and South-central Climate Divisions were obtained from the Louisiana Office of State Climatology. The monthly water yield was divided by the number of days in the month to obtain runoff intensity (Table 6-15).

Table 6-14. Nutrient concentrations in the impaired subsegments in the upper Terrebonne Basin

Subsegment	Subsegment name	Statistic	Total P (mg/L)	NO2+NO3 (mg/L)	TKN (mg/L)	Total N (mg/L)
120102	Bayou Poydras	Minimum	0.13	0.02	0.35	0.47
		Mean	0.30	0.25	1.22	1.44
		Maximum	0.67	1.74	2.21	3.89
120103	Bayou Choctaw	Minimum	0.07	0.02	0.23	0.19
		Mean	0.24	0.32	1.01	1.31
		Maximum	0.76	2.28	2.88	4.86
120105	Chamberlin Canal	Minimum	0.17	0.02	0.52	0.69
		Mean	0.32	0.23	1.24	1.47
		Maximum	0.56	1.58	2.60	3.11
120106	Bayou Plaquemine	Minimum	0.14	0.05	0.13	0.69
		Mean	0.26	0.53	0.90	1.38
		Maximum	0.65	1.67	2.00	3.56
120109	Intracoastal Waterway	Minimum	0.12	0.09	0.15	1.04
		Mean	0.27	0.96	0.80	1.76
		Maximum	0.59	1.97	1.61	2.76

Table 6-15. Average water yields for climate divisions in the Terrebonne Basin

Climate division	Yearly average monthly water yield (millimeters)	Subsegments represented
Central	2.337	120102, 120103, 120105, 120109
South-central	2.378	120106

The nutrient TMDLs are presented in Table 6-16. The water yield was used with the mean reference stream concentration to determine the LA portion of the TMDL. Because no permit limits for total nitrogen or total phosphorus were found, WLAs were calculated using concentrations from the *Technical Guidance Manual for Developing Total Maximum Daily Loads* (USEPA 1997). The effluent concentrations were assumed to be 7 mg/L for total phosphorus and 23 mg/L for total nitrogen. Table 6-17 lists the individual WLAs for the MS4s identified in Section 2.5. WLAs are presented in Tables 6-18 through 6-22. Although the assumed nutrient WLAs are based on best professional judgment, meeting them might not be necessary if alternative remediation and future monitoring prove that nutrient levels are acceptable without reducing WLAs.

Table 6-16. Summary of TMDLs for nutrients in the upper Terrebonne Basin

Subsegment	∑ WLA	∑ LA	MOS	FG (10%)	Total allowable loading
Total phosphorus					
120102	4.17	0.15	Implicit	0.48	4.80
120103	18.43	0.36	Implicit	2.09	20.88
120105	5.01	0.28	Implicit	0.59	5.88
120106	93.77	0.02	Implicit	10.42	104.21
120109	57.91	0.43	Implicit	6.48	64.81

Table 6-16. (continued)

Subsegment	∑ WLA	∑ LA	MOS	FG (10%)	Total allowable loading
Total nitrogen					
120102	13.71	0.71	Implicit	1.60	16.02
120103	60.59	1.74	Implicit	6.93	69.25
120105	16.47	1.34	Implicit	1.98	19.79
120106	308.10	0.08	Implicit	34.24	342.43
120109	190.28	2.06	Implicit	21.37	213.71

Table 6-17. Summary of nutrient WLAs for MS4s in the upper Terrebonne Basin

Subsegment	Urban area	NPDES	MS4 area (acres)	Pollutant	MS4 (lb/d)
120103	Port Allen	LAR0410102	1,405.01	Total nitrogen	0.0722
120103	Port Allen	LAR0410102	1,405.01	Total phosphorus	0.0149
120109	Port Allen	LAR0410102	425.60	Total nitrogen	0.0217
120109	Port Allen	LAR0410102	425.60	Total phosphorus	0.0045

Table 6-18. WLAs for nutrients for subsegment 120102 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LAG531203	001	Jannet's Trailer Park	0.003	0.58	0.18
LAG531500	001	Hidden Oaks Mobile Home	0.0045	0.86	0.26
LAG531697	001	Iberville Parish Council	0.00074	0.14	0.04
LAG531903	001	Dollar Variety, LLC	0.00006	0.01	0
LAG531990	001	Club Combination	0.001635	0.31	0.1
LAG540069	001	190 Quick Mart, Inc.	0.003017	0.58	0.18
LAG540785	001	West Baton Rouge Ph Nat Gas & Water	0.012	2.3	0.7
LAG540858	001	Ewing's of New Roads, Inc.	0.00636	1.22	0.37
LAG540898	001	State Capitol Dragway NHRA	0.04	7.68	2.34
LAG750164	001	V&G Laundry	0.0001	0.02	0.01

[a]The effluent concentrations were assumed to be 7 mg/L for total phosphorus and 23 mg/L for total nitrogen.

Table 6-19. WLAs for nutrients for subsegment 120103 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0092878	001	Westside Coating Svc, Inc.	0.0008	0.15	0.05
LA0103586	001	Basf Catalysts, LLC - Port Allen Works	0.0012	0.23	0.07
LA0117773	001	Fluker's Cricket Farm, Inc.	0.003	0.58	0.18
LA0117773	002	Fluker's Cricket Farm, Inc.	0.0006	0.12	0.04
LAG480101	001	United ANCO Insulations, Inc.	0.0015	0.29	0.09
LAG480165	003	TMI Enterprise, LLC	0.000952	0.18	0.06
LAG480175	001	Specialty Application Services, Inc. - Port Allen Facility	0.00006	0.01	0
LAG480179		Oil Mop, LLC	0.0004	0.08	0.02
LAG480182	001	Industrial Parts Specialties	0.0015	0.29	0.09

Table 6-19. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	TNa (lb/d)	TPa (lb/d)
LAG480386		Westside Galvanizing Svcs	0.0008	0.15	0.05
LAG480404		Asphalt Products Unlimited	0.0001	0.02	0.01
LAG480538	001	Shaw SSS Fabricators, Inc.	0.0005	0.1	0.03
LAG480538	001	Shaw SSS Fabricators, Inc.	0.0005	0.1	0.03
LAG480538	002	Shaw SSS Fabricators, Inc.	0.0015	0.29	0.09
LAG530126		Matrix Food Store	0.005	0.96	0.29
LAG530361	001	MCBR Management Co, Inc. - McDonald's Restaurant	0.005	0.96	0.29
LAG530639		Westerner Motel	0.005	0.96	0.29
LAG531054		Heyman-Moore Transport, Inc.	0.005	0.96	0.29
LAG531121		Waffle House Miller Properties	0.00255	0.49	0.15
LAG531384		Bergeron's Boudin & Cajun	0.00036	0.07	0.02
LAG531623		Circle K, Inc.	0.00091	0.17	0.05
LAG531726		American General Investments - Cracker Barrel	0.0015	0.29	0.09
LAG540027		Krawdaddys Deli & Restaurant	0.01444	2.76	0.84
LAG540089		415 Trailer Park	0.00925	1.78	0.54
LAG540205		Cajun Country Campground, Inc.	0.00975	1.87	0.57
LAG540264		Days Inn of Port Allen	0.01835	3.52	1.07
LAG540342		West Baton Rouge Parish Work Release Gulf Coast Correct	0.009	1.73	0.53
LAG540387	001	Iberville Ph School Board	0.01502	2.88	0.88
LAG540510		MMI of Louisiana - Holiday Inn West	0.0072	1.38	0.42
LAG540584		Pointe Coupee Sew Svc	0.0236	4.53	1.38
LAG540775		W Baton Rouge Ph School Board	0.0068	1.31	0.4
LAG540851		Acadian Mobile Home Park	0.00432	0.83	0.25
LAG540856		West Baton Rouge Par Sch Bd	0.025	4.8	1.46
LAG541036	001	West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	0.0069	1.32	0.4
LAG541036	001	West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	0.0069	1.32	0.4
LAG541036		West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	0.0069	1.32	0.4
LAG541051		Sunrise Village Mobile Home Park - Izzy & Elliot, LLC	0.0108	2.07	0.63
LAG541218		Legacy Trailer Park	0.0075	1.44	0.44
LAG541313		Mo-Dad Utilities, LLC - West Lake Subdivision	0.0248	4.76	1.45
LAG560148		West Baton Rouge Par Nat Gas & Wtr - Blanchard Estates	0.01095	2.1	0.64
LAG560149		West Baton Rouge Parish Police Detention and Law Enforcement Center	0.032434	6.23	1.89
LAG560189		West Baton Rouge Par Utilities Dept - Roseland Trace Subd	0.019	3.65	1.11
LAG570331		West Baton Rouge Natural Gas and Water Systems - Mulatto Bend WWTF	0.006382	1.31	0.4
LAG750279		Hulcher SVC INC	0.00006	0.01	0
LAG750453		Louisiana Scrap Metal	0.0008	0.15	0.05

[a]The effluent concentrations were assumed to be 7 mg/L for total phosphorus and 23 mg/L for total nitrogen.

Table 6-20. WLAs for nutrients for subsegment 120105 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0121185	002	Air Liquide America Lp	0.00002	0	0
LAG540581	001	Pointe Coupee Ph School Board - Rougon Elementary School	0.00599	1.15	0.35
LAG540581		Pointe Coupee Ph School Board - Rougon Elementary School	0.014	2.69	0.82
LAG530786		West Baton Rouge Par Sch Bd - Chamberlin Elem. School	0.005	0.96	0.29
LAG540783		West Baton Rouge Ph Natural Gas & Wtr Sys - Ashland Plantation WWTP	0.049	9.41	2.86
LAG540784		West Baton Rouge Comm Cntr	0.005	0.96	0.29

[a]The effluent concentrations were assumed to be 7 mg/L for total phosphorus and 23 mg/L for total nitrogen.

Table 6-21. WLAs for nutrients for subsegment 120106 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LAG531065	001	Iberville Parish Parks & Rec	0.005	0.96	0.29
LAG531912	001	Eagle Warehouse	0.00004	0.01	0
LAG531912	002	Eagle Warehouse	0.00036	0.07	0.02
LAG540102		TesH-Green Acres	0.024	4.61	1.4
LAG540118	001	River West Medical Ctr	0.007777	1.49	0.45
LAG540384	001	Crescent Elementary School	0.0026	0.5	0.15
LAG570359	001	Iberville Parish Council - Patureau Lane Sewer	0.065	12.48	3.8

[a]The effluent concentrations were assumed to be 7 mg/L for total phosphorus and 23 mg/L for total nitrogen.

Table 6-22. WLAs for nutrients for subsegment 120109 in the upper Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0047554	001	Sid Richardson Carbon Co.	0.002	0.38	0.12
LA0052124		Intercontinental Terminals Co.	0.0005	0.1	0.03
LA0068241		Brusly, Town of	0.22298	42.8	13.03
LA0068501	001	West Baton Rouge Ph-Westport	0.3	57.58	17.53
LA0080888	001	Westway Trading Company - Port Allen Terminal	0.0001	0.02	0.01
LA0080888	004	Westway Trading Company - Port Allen Terminal	0.00005	0.01	0
LA0083721		Trinity Marine Products	0.005	0.96	0.29
LA0083721		Trinity Marine Products	0.0015	0.29	0.09
LA0047554	001	Sid Richardson Carbon Co.	0.002	0.38	0.12
LA0052124		Intercontinental Terminals Co.	0.0005	0.1	0.03
LA0068241		Brusly, Town of	0.22298	42.8	13.03
LA0068501	001	West Baton Rouge Ph-Westport	0.3	57.58	17.53
LA0080888	001	Westway Trading Company - Port Allen Terminal	0.0001	0.02	0.01
LA0080888	004	Westway Trading Company - Port Allen Terminal	0.00005	0.01	0
LA0083721		Trinity Marine Products	0.005	0.96	0.29
LA0083721		Trinity Marine Products	0.0015	0.29	0.09

Table 6-22. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0083721		Trinity Marine Products	0.01	1.92	0.58
LA0085821	201	EXXON Port Allen Lube Plant	0.003	0.58	0.18
LA0104159	001	Trans Chem - Port Allen	0.00034	0.07	0.02
LA0104159		Trans Chem - Port Allen	0.00034	0.07	0.02
LA0107719	002	Nalco Company	0.0002	0.04	0.01
LA0108685	002	Andrews Transports	0.0005	0.1	0.03
LA0114324	001	Community Coffee Co., LLC	0.002	0.38	0.12
LA0114324	001	Community Coffee Co., LLC	0.002	0.38	0.12
LAG110020	001	Construction Specialists	0.002	0.38	0.12
LAG380068		Iberville Par Waterworks	0.005	0.96	0.29
LAG480189	001	Reliant Technologies	0.000072	0.01	0
LAG480217	004	Southern Scrap Xpress	0.000309	0.06	0.02
LAG480319	101S	Criterion Catalyst & Technologies	0.00054	0.1	0.03
LAG480319		Southern Ionics, Inc.	0.003	0.58	0.18
LAG480441	002	Wal-Mart Stores, Inc.	0.005	0.96	0.29
LAG480540		US Dept of Energy Strategic Petroleum Reserve - Bayou Choctaw Storage Facility	0.00083	0.16	0.05
LAG530594		Waffle House #1016	0.005	0.96	0.29
LAG530620		Ourso Trailer Park Brusly	0.005	0.96	0.29
LAG531026	001	Brusly Apts	0.002	0.38	0.12
LAG531056	001	Greater Btr Port Commission	0.0005	0.1	0.03
LAG531056	002	Greater Btr Port Commission	0.0005	0.1	0.03
LAG531095	001	Lyons Speciality Co, Inc. & Aa Vending	0.005	0.96	0.29
LAG531095		Lyons Specialty Co., Inc.	0.003162	0.61	0.18
LAG531167	001	Leo Wallace Daiquiries	0.00105	0.2	0.06
LAG531167		Leo Wallace Daiquiries	0.00105	0.2	0.06
LAG531168	001	Lucky Dollar Casino	0.005	0.96	0.29
LAG531169	001	Port Allen Inn Suites	0.0048	0.92	0.28
LAG531231		Poplar Grove Chapel Missionary Baptist Church	0.005	0.96	0.29
LAG531239		Player's Pub and Family Hair Care	0.000875	0.17	0.05
LAG531362		LA DOTD	0.0025	0.48	0.15
LAG531616		Thomas Pipe & Steel, LLC	0.0003	0.06	0.02
LAG531756		Dollar Distributing, Inc.	0.0041	0.79	0.24
LAG532260	003	Distribution International	0.005	0.96	0.29
LAG532260	101	Distribution International	0.0006	0.12	0.04
LAG532260	102	Distribution International	0.0015	0.29	0.09
LAG540359		Best Western Magnolia Manor	0.016525	3.17	0.97
LAG540627	001	S&R Mobile Home Park	0.015	2.88	0.88
LAG540786	001	West Baton Rouge Ph Nat Gas & Wtr - Oak Alley Subdivision	0.0156	2.99	0.91
LAG540921		West Baton Rouge Ph Nat Gas & Wtr - Brittany Estates	0.006	1.15	0.35
LAG540994	001	Chinese Inn	0.00575	1.1	0.34

Table 6-22. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LAG540994		Chinese Inn	0.00575	1.1	0.34
LAG540998	001	West Baton Rouge Work Release Ctr	0.00974	1.87	0.57
LAG540998		West Baton Rouge Work Release Ctr	0.00974	1.87	0.57
LAG541105		Cash's Casino, Inc.	0.00908	1.74	0.53
LAG560147		West Baton Rouge Natural Gas And Water Systems - Riverside Dr	0.035	6.72	2.04
LAG560191	001	West Baton Rouge Ph Nat Gas & Wtr	0.036	6.91	2.1
LAG560192	001	Timberlane Trailer Park Oxidation Pond	0.0384	7.37	2.24
LAG560237		West Baton Rouge Parish - Freeman Lane WWTP	0.007	1.34	0.41
LAG570151	001	West Baton Rouge Nat Gas And Wtr - Fairview Estates Subdivision	0.09	17.27	5.26
LAG570355	001	West Baton Rouge Parish Utilities, Beaulieu Stp No. 1	0.0096	1.84	0.56
LAG570356	001	Choctaw Mhp, LLC	0.0609	11.69	3.56
LAG750188		Corps of Engineers - Bayou Sorrel Lock	0.00008	0.02	0

[a]The effluent concentrations were assumed to be 7 mg/L for total phosphorus and 23 mg/L for total nitrogen.

7 FUTURE ACTIVITIES

7.1 TMDL Implementation Strategies

Reasonable assurance is needed that the water quality criterion will be attained. WLAs will be implemented through Louisiana Pollutant Discharge Elimination System (LPDES) permit procedures. Part of the LAs might be implemented through the LDEQ 305(b) program and set priorities for the Clean Water Act section 319 program. BMPs from the implementation plan will be implemented throughout the subsegment. This approach will reduce the loadings and improve dissolved oxygen levels in the subsegment and subsequent downstream subsegments.

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

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

7.2 Environmental Monitoring Activities

LDEQ uses funds provided under section 106 of the Clean Water Act and under the authority of the Louisiana Environmental Quality Act to run a program for monitoring the quality of Louisiana's surface waters. The LDEQ Surveillance Section collects surface water samples at various locations using appropriate sampling methods and procedures to ensure the quality of the data collected. The objectives of the surface water monitoring program are to determine the quality of the state's surface waters, to develop a long-term database for water quality trend analysis, and to monitor the effectiveness of pollution controls. The data obtained through the surface water monitoring program are used to develop the state's biennial section 305(b) report (*Water Quality Inventory*) and section 303(d) list of impaired waters.

LDEQ has implemented a watershed approach to surface water quality monitoring. Through the approach, the entire state is sampled on a 4-year cycle. Long-term trend monitoring sites at various locations on the large rivers and Lake Pontchartrain are sampled throughout the 4-year cycle. Sampling is conducted monthly to yield approximately 12 samples per site during each year the site is monitored. Sampling sites are located where they are considered representative of the waterbody. Under the current monitoring schedule, approximately one-half of the state's waters are newly assessed for section 305(b) and section 303(d) listing purposes during each biennial cycle; sampling occurs statewide each year. The 4-year cycle follows an initial 5-year rotation that covered all basins in the state according to the TMDL priorities.

Monitoring will allow LDEQ to determine whether there has been any improvement in water quality following TMDL implementation. As the monitoring results are evaluated at the end of each year, waterbodies might be added to or removed from the section 303(d) list of impaired waterbodies.

8 PUBLIC PARTICIPATION

Federal regulations require EPA to notify the public and seek comments concerning TMDLs that the Agency prepares. These TMDLs were developed under contract to EPA, and EPA held a public review period seeking comments, information, and data from the public and any other interested parties. The notice for the public review period was published in the *Federal Register* on XXX XX, XXXX, and the review period closed on XXX XX, XXXX.

Comments were received from XXX and were used to inform or revise this TMDL document.

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

REFERENCES

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

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Table A-1. Point source discharge information for BOD for subsegment 120102

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LA0003034	001	Alma Plantation, Ltd - Pointe County	4612 Alma Rd; Lakeland	Bayou Poydras	17 (average) 15 (maximum)	10 (monthly ave) 15 (daily max)
LA0003034	003	Alma Plantation, Ltd - Pointe County	4612 Alma Rd; Lakeland	Bayou Poydras	14 (average) 15 (maximum)	10 (monthly ave) 15 (daily max)
LAG531203	001	Jannet's Trailer Park	5552 Flynn Rd; Port Allen	Bayou Poydras	0.003 (average) 0.005 (maximum)	45 (weekly ave)
LAG531500	001	Hidden Oaks Mobile Home	7200 Rougon Rd; Port Allen	Stumpy Bayou - Bayou Choctaw	0.0045 (average) 0.005 (maximum)	45 (weekly ave)
LAG531697	001	Iberville Parish Council	12419 Section Rd; Erwinville	Local Route - Bayou Poydras	0.00074 (average) 0.0025 (maximum)	45 (weekly ave)
LAG531903	001	Dollar Variety, LLC	12480 Hwy 190 W; Port Allen	Bayou Poydras	0.00006 (average) 0.0025 (maximum)	45 (weekly ave)
LAG531990	001	Club Combination	12496 Maple St; Port Allen	ditch - Bayou Poydras	0.001635 (average) 0.005 (maximum)	45 (weekly ave)
LAG540069	001	190 Quick Mart, Inc.	12724 Hwy 190 W; Erwinville	Bayou Poydras	0.003017 (average) 0.025 (maximum)	45 (weekly ave)
LAG540785	001	West Baton Rouge Ph Nat Gas & Water	On Hwy 190; Erwinville	Bayou Poydras	0.012 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540858	001	Ewing's of New Roads, Inc.	12610 Hwy 190 W; Erwinville	Bayou Poydras	0.00636 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540898	001	State Capitol Dragway NHRA	11436 Hwy 190 W; Port Allen	Bayou Poydras	0.04 (average) 0.05 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG750164	001	V&G Laundry	Along Hwy 620; Erwinville	Stumpy Bayou	0.0001 (average)	45 (weekly ave)

Table A-2. Point source discharge information for DO for subsegment 120102

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	DO (mg/L)
LA0003034	001	Alma Plantation Ltd - Pointe County	4612 Alma Rd; Lakeland	Bayou Poydras	17 (average) 15 (maximum)	4 (monthly ave) 3 (daily max)
LA0003034	003	Alma Plantation Ltd - Pointe County	4612 Alma Rd; Lakeland	Bayou Poydras	14 (average) 15 (maximum)	4 (monthly ave) 3 (daily max)

Table A-3. Point source discharge information for BOD for subsegment 120103

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LA0092878	001	Westside Coating Svc, Inc.	3520 S Riverview; Port Allen	Bayou Broussard - ICWW	0.0008 (average)	45 (weekly ave)
LA0103586	001	Basf Catalysts, LLC - Port Allen Works	3502 S Riverview Dr; Port Allen	Choctaw Bayou - Brousssard Bayou	0.0012 (average)	45 (weekly ave)
LA0117773	001	Fluker's Cricket Farm, Inc.	1333 Plantation Ave; Port Allen	Choctaw Bayou	0.003 (average)	45 (weekly ave)
LA0117773	002	Fluker's Cricket Farm, Inc.	1333 Plantation Ave; Port Allen	Choctaw Bayou	0.0006 (average)	45 (daily max)
LAG480101	001	United ANCO Insulations, Inc.	950 MAHAFFEY RD; Port Allen	ICWW	0.0015 (maximum)	45 (weekly ave)
LAG480165	001	TMI Enterprise, LLC	624 Hwy 190 W ; Port Allen	ICWW	0.000952 (maximum)	45 (weekly ave)
LAG480175	001	Specialty Application Services, Inc. - Port Allen Facility	1331 Hwy 190 W; Port Allen	ICWW	0.00006 (average)	45 (weekly ave)
LAG480179		Oil Mop, LLC	5227 N River Rd; Port Allen	Bayou Choctaw-ICWW	0.0004 (maximum)	45 (weekly ave)
LAG480182	001	Industrial Parts Specialties	630 Lot Rd; Port Allen	local drainage - Broussard Bayou	0.0015 (average)	45 (weekly ave)
LAG480386		Westside Galvanizing Svcs	3520 S Riverview; Port Allen	Broussard Bayou - ICWW	0.0008 (average)	45 (weekly ave)
LAG480404		Asphalt Products Unlimited	4675 Interstate Hwy; Port Allen	ditch - Choctaw Bayou	0.0001 (maximum)	45 (weekly ave)
LAG480538	001	Shaw SSS Fabricators, Inc.	7012 Hwy 1 S; Addis	ditch - Bayou Bourbeaux - Bull Bay -Bayou Choctaw	0.0005 (average) 0.0025 (maximum)	45 (weekly ave)

Table A-3. (Continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LAG480538	001	Shaw SSS Fabricators, Inc.	7012 Hwy 1 S; Addis	ditch - Bayou Bourbeaux - Bull Bay -Bayou Choctaw	0.0005 (maximum)	45 (weekly ave)
LAG480538	002	Shaw SSS Fabricators, Inc.	7012 Hwy 1 S; Addis	ditch - Bayou Bourbeaux - Bull Bay -Bayou Choctaw	0.0015 (average) 0.0025 (maximum)	45 (weekly ave)
LAG530126		Matrix Food Store	111 Lobdell Hwy; Port Allen	ditch - Parish Canal - Choctaw Bayou	0.005 (maximum)	45 (weekly ave)
LAG530361	001	MCBR Management Co, Inc. - McDonald's Restaurant	150 Lobdell Hwy, I-10 @ LA 76; Port Allen	ditch - Bayou Choctaw	0.005 (maximum)	45 (weekly ave)
LAG530639		Westerner Motel	1615 Hwy 190; Port Allen	Bayou Choctaw	0.005 (maximum)	45 (weekly ave)
LAG531054		Heyman-Moore Transport, Inc.	4115 I-10 Frontage Rd; Port Allen	ditch - Alligator Bayou - ICWW	0.005 (maximum)	45 (weekly ave)
LAG531121		Waffle House Miller Properties	112 Lobdell Hwy; Port Allen	ICWW	0.00255 (average) 0.005 (maximum)	45 (weekly ave)
LAG531384		Bergeron's Boudin & Cajun	760 Lobdell Hwy; Port Allen	ICWW	0.00036 (average)	45 (weekly ave)
LAG531623		Circle K, Inc.	1432 Hwy 190 W; Port Allen	ditch - Bayou Broussard - ICWW	0.00091 (maximum)	45 (weekly ave)
LAG531726		American General Investments - Cracker Barrel	133 Lobdell Hwy; Port Allen	ditch - Choctaw Bayou	0.0015 (maximum)	45 (weekly ave)
LAG540027		Krawdaddys Deli & Restaurant	1680 Lobdell Hwy; Port Allen	ICWW	0.01444 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540089		415 Trailer Park	2022 Lobdell Hwy; Port Allen	ICWW	0.00925 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540205		Cajun Country Campground, Inc.	4667 Rebelle Ln; Port Allen	Bud Major Canal - Bayou Choctaw	0.00975 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540264		Days Inn of Port Allen	215 Lobdell Hwy; Port Allen	Choctaw Bayou	0.01835 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)

Table A-3. (Continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LAG540342		West Baton Rouge Parish Work Release Gulf Coast Correct	1155 N West Dr; Port Allen	Bayou Broussard - Bayou Choctaw	0.009 (average)	30 (monthly ave) 45 (weekly ave)
LAG540387	001	Iberville Ph School Board	59595 Belleview Rd; Plaquemine	ditch - Logging Canal - Bayou Choctaw	0.01502 (average)	30 (monthly ave) 45 (weekly ave)
LAG540510		MMI of Louisiana - Holiday Inn West	131 Lobdell Hwy; Port Allen	canal - Choctaw Bayou - ICWW	0.0072 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540584		Pointe Coupee Sew Svc	Hwy 416, 10 M SE of New Roads; Glynn	Stumpy Bayou - Bayou Choctaw	0.0236 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540775		W Baton Rouge Ph School Board	11851 N River Rd (Hwy 415; Chamberlain	Chamberlin - Canal - Choctaw Bayou – ICWW	0.0068 (average)	30 (monthly ave) 45 (weekly ave)
LAG540851		Acadian Mobile Home Park	10233 N River Rd; Port Allen	drainage - Choctaw Bayou	0.00432 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540856		West Baton Rouge Par Sch Bd	3553 Rosedale Rd; Port Allen	Drainage - B. Choctaw	0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG541036	001	West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	6937 Hwy 190 W; Port Allen	Terrebonne Basin	0.0069 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG541036	001	West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	6937 Hwy 190 W; Port Allen	ditch - Club Canal - Bayou Choctaw	0.0069 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG541036		West Baton Rouge Auto Salvage - Wrecker & LaComb's Trailer Park	6937 Hwy 190 W; Port Allen	ditch - Club Canal- Bayou Choctaw	0.0069 (average)	30 (monthly ave) 45 (weekly ave)
LAG541051		Sunrise Village Mobile Home Park - Izzy & Elliot, LLC	1812 S Winterville Rd; Port Allen	ditch - Choctaw Bayou	0.0108 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG541218		Legacy Trailer Park	3824 Kahns Rd; Port Allen	local drainage - Broussard Bayou	0.0075 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG541313		Mo-Dad Utilities, LLC - West Lake Subdivision	Rebelle Ln, off Rosedale Rd (Hwy 76); Port Allen	ditch - Alligator Bayou - ICWW	0.0248 (average)	30 (monthly ave) 45 (weekly ave)
LAG560148		West Baton Rouge Par Nat Gas & Wtr - Blanchard Estates	4892 Edmonton Ave; Port Allen	ditch-Blanchard Can-Bay Choctaw	0.01095 (average) 0.04 (maximum)	20 (monthly ave) 30 (weekly ave)

Table A-3. (Continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LAG560149		West Baton Rouge Parish Police Detention and Law Enforcement Center	1150 Northwest Dr; Port Allen	Broussard Bayou – ICWW	0.032434 (average) 0.05 (maximum)	20 (monthly ave) 30 (weekly ave)
LAG560189		West Baton Rouge Par Utilities Dept - Roseland Trace Subd	4500 Rosedale Rd; Port Allen	drainage ditch - Choctaw Bayou - ICWW	0.019 (average) 0.0308 (average)	20 (monthly ave) 30 (weekly ave)
LAG570331		West Baton Rouge Natural Gas and Water Systems - Mulatto Bend WWTF	3941 S. Mulatto Bend Rd; Port Allen	Broussard Bayou - ICWW	0.006382 (average) 0.04 (maximum)	15 (monthly ave) 23 (weekly ave)
LAG750279		Hulcher SVC INC	3505 LA 1 North; Port Allen	Hwy 1 ditch - drainage canal - ICWW	0.00006 (average) 0.005 (maximum)	45 (weekly ave)
LAG750453		Louisiana Scrap Metal	991 Hwy 190 W; Port Allen	ditch - Bayou Broussard	0.0008	45 (weekly ave)

Table A-4. Point source discharge information for BOD for subsegment 120105

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LA0121185	002	Air Liquide America Lp	7425 Hwy 190 W; Port Allen	local drainage - Tiger Bayou - Choctaw Bayou - ICWW	0.00002 (average)	45 (weekly ave)
LAG540581	001	Pointe Coupee Ph School Board - Rougon Elementary School	13258 LA Hwy 416; Rougon	Stumpy Bayou	0.00599 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540581		Pointe Coupee Ph School Board - Rougon Elementary School	13258 LA Hwy 416; Rougon	Stumpy Bayou	0.014 (average)	30 (monthly ave) 45 (weekly ave)
LAG530786		West Baton Rouge Par Sch Bd - Chamberlin Elem. School	6024 Section Rd; Port Allen	local drain - Chamberlain Canal	0.005 (average)	45 (weekly ave)
LAG540783		West Baton Rouge Ph Natural Gas & Wtr Sys - Ashland Plantation WWTP	End of Tuscaloosa Rd off Beuche Rd (Hwy 983); Port Allen	Tiger Bayou - Chamberlin Canal	0.049 (average)	30 (monthly ave) 45 (weekly ave)
LAG540784		West Baton Rouge Comm Cntr	5110 Rougon Rd, Hwys 984 & 620; Port Allen	Little Bayou Stumpy - Bayou Choctaw – ICWW	0.005 (average)	30 (monthly ave) 45 (daily max)

Table A-5. Point source discharge information for BOD for subsegment 120106

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LAG531065	001	Iberville Parish Parks & Rec	25300 Crescent Ln; Plaquemine	Bayou Plaquemine	0.005 (maximum)	45 (weekly ave)
LAG531912	001	Eagle Warehouse	58015 Industrial Blvd; Plaquemine	ditch - parish ditch - Plaquemine Bayou	0.00004 (average)	45 (weekly ave)
LAG531912	002	Eagle Warehouse	58015 Industrial Blvd; Plaquemine	ditch - parish ditch - Plaquemine Bayou	0.00036 (average)	45 (weekly ave)
LAG540102		Tesi-Green Acres	Talbot Dr. off LA 77; Plaquemine	ditch - Bayou Jacob - Bayou Plaquemine	0.024 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540118	001	River West Medical Ctr	59355 River West Dr; Plaquemine	Bayou Plaquemine	0.007777 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540384	001	Crescent Elementary School	62575 Keller; Plaquemine	Wilbert Canal - Lower Grand Riv	0.0026 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG570359	001	Iberville Parish Council - Patureau Lane Sewer	61755 Bayou Rd; Plaquemine	ditch - Bayou Plaquemine	0.065 (maximum)	10 (monthly ave) 15 (weekly ave)

Table A-6. Point source discharge information for DO for subsegment 120106

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	DO (mg/L)
LA0020648	001	Plaquemine, City of	59000 W.W. Harleux Blvd; Plaquemine	Effluent Pipe - Bayou Plaquemine - Grand Bayou	1.5 (maximum)	5 (monthly ave)

Table A-7. Point source discharge information for ammonia for subsegment 120106

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	NH3 (mg/L)
LA0020648	001	Plaquemine, City of	59000 W.W. Harleux Blvd; Plaquemine	Effluent Pipe - Bayou Plaquemine - Grand Bayou	1.5 (maximum)	4 (monthly ave) 8 (daily max)

Table A-8. Point source discharge information for BOD for subsegment 120109

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LA0047554	001	Sid Richardson Carbon Co.	5221 Sid Richardson Rd; Addis	drainage - Bayou Bourbeaux - Bayou Choctaw	0.002 (average)	45 (weekly ave)
LA0052124		Intercontinental Terminals Co.	2449 N River Rd; Port Allen	unnamed canal - ICWW	0.0005 (average)	45 (weekly ave)
LA0068241		Brusly, Town of	end of Live Oak Dr; Brusly Landing	Choctaw Drainage Canal - ICWW	0.22298 (average) 0.7 (maximum)	10 (monthly ave) 15 (weekly ave)
LA0068501	001	West Baton Rouge Ph-Westport	1100 Lobdell Hwy S; Port Allen	unnamed ditch - ICWW	0.3 (maximum)	10 (monthly ave) 15 (weekly ave)
LA0080888	001	Westway Trading Company - Port Allen Terminal	1650 Ernest D Wilson Dr; Port Allen	local drainage - ICWW	0.0001 (average)	45 (weekly ave)
LA0080888	004	Westway Trading Company - Port Allen Terminal	1650 Ernest D Wilson Dr; Port Allen	local drainage - ICWW	0.00005 (maximum)	45 (daily max)
LA0083721		Trinity Marine Products	7555 Choctaw Rd; Brusly Landing	unnamed ditch - ICWW	0.005 (average)	45 (weekly ave)
LA0083721		Trinity Marine Products	7555 Choctaw Rd; Brusly Landing	unnamed ditch - ICWW	0.0015 (average)	45 (weekly ave)
LA0083721		Trinity Marine Products	7555 Choctaw Rd; Brusly Landing	unnamed ditch - ICWW	0.01 (average)	30 (monthly ave) 45 (weekly ave)
LA0085821	201	EXXON Port Allen Lube Plant	2230 Hwy 1 N; Port Allen	ICWW	0.003 (average)	45 (weekly ave)
LA0099481		Discovery Aluminas Alcoa-Hi-Q Plant	1471 Safe Energy Dr; Port Allen	Parrish Drainage – ICWW	0.0004 (average)	45 (weekly ave)
LA0104159	001	Trans Chem - Port Allen	1259 Safe Energy Dr.; Port Allen	ICWW	0.00034 (average)	45 (weekly ave)
LA0104159		Trans Chem - Port Allen	1259 Safe Energy Dr.; Port Allen	ICWW	0.00034 (maximum)	45 (weekly ave)
LA0107719	001	Nalco Company	2660 American Way; Port Allen	unnamed ditch into ICWW	0.03 (average)	9 lb/d (monthly ave) 23 lb/d (daily max)
LA0107719	002	Nalco Company	2660 American Way; Port Allen	unnamed ditch into ICWW	0.0002 (average)	45 (weekly ave)
LA0108685	002	Andrews Transports	1555 Beaulieu Ln; Port Allen	local drainage - Choctaw Basin Drainage Canal – ICWW	0.0005 (average)	45 (weekly ave)

Table A-8. (Continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LA0111082	201	Enterprise Prod Ope-Baton Rouge	2220 N River Rd; Port Allen	ICWW	0.0468 (maximum)	1 lb/d (monthly ave) 2 lb/d (daily max)
LA0114324	001	Community Coffee Co., LLC	1833 Hwy 1; W Baton Rouge Parish	ICWW	0.002 (maximum)	45 (weekly ave)
LA0114324	001	Community Coffee Co., LLC	1833 Hwy 1 S; Port Allen	ditch - ICWW	0.002 (average)	45 (weekly ave)
LAG110020	001	Construction Specialists	3371 LA Hwy 1 North; Port Allen	ICWW	0.002 (average)	45 (weekly ave)
LAG380068		Iberville Par Waterworks	65,200 Bellview Rd; Plaquemine	local drainage - Wilbert Canal – ICWW	0.005 (maximum)	45 (weekly ave)
LAG480154	001	Diamond Plastics Corp	59225 Hwy 1148; Plaquemine	drainage ditch - Wilbert Canal	0.00084 (average)	45 (weekly ave)
LAG480189	001	Reliant Technologies	2933 Hwy 1 North; Port Allen	local drainage - ICWW	0.000072 (average) 0.005 (maximum)	45 (weekly ave)
LAG480217	004	Southern Scrap Xpress	1367 Mahaffey Rd; Port Allen	ICWW	0.000309 (average)	45 (weekly ave)
LAG480319	101S	Criterion Catalyst & Technologies	1471 Safe Energy Drive; Port Allen	ICWW	0.00054 (average)	45 (weekly ave)
LAG480319		Southern Ionics, Inc.	1145 Neosho Ave; Port Allen	ICWW	0.003 (maximum)	45 (weekly ave)
LAG480441	002	Wal-Mart Stores, Inc.	2808 Court St; Port Allen	ditch - Broussard Bayou	0.005 (maximum)	45 (weekly ave)
LAG480540		US Dept of Energy Strategic Petroleum Reserve - Bayou Choctaw Storage Facility	60825 B Hwy 1148; Plaquemine	ditch - Bull Bay - Choctaw Bayou	0.00083 (average)	45 (weekly ave)
LAG530594		Waffle House #1016	3163 Hwy 1 S; Port Allen	Choctaw Basin Drainage Canal - Port Allen Canal - ICWW	0.005 (maximum)	45 (weekly ave)
LAG530620		Ourso Trailer Park Brusly	off Michelle Dr, near Golf Club; Addis	local drain - ICWW	0.005 (maximum)	45 (weekly ave)
LAG531026	001	Brusly Apts	5143 Choctaw Rd; Brusly	unnamed ditch - ICWW	0.002 (average)	45 (weekly ave)

Table A-8. (Continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LAG531056	001	Greater Btr Port Commission	2707 North Line Rd; Port Allen	local drainage - Slackwater Canal	0.0005 (average)	45 (weekly ave)
LAG531056	002	Greater Btr Port Commission	2707 North Line Rd; Port Allen	local drainage - Slackwater Canal	0.0005 (average)	45 (weekly ave)
LAG531095	001	Lyons Speciality Co, Inc. & Aa Vending	2800 Hwy 1 North; Port Allen	effluent pipe - ICWW	0.005 (maximum)	45 (weekly ave)
LAG531095		Lyons Specialty Co., Inc.	AA Vending; Port Allen	ICWW	0.003162	45 (weekly ave)
LAG531167	001	Leo Wallace Daiquiries	3067 Rosedale Rd; Port Allen	Broussard Bayou	0.00105 (average) 0.005 (maximum)	45 (weekly ave)
LAG531167		Leo Wallace Daiquiries	3067 Rosedale Rd; Port Allen	Broussard Bayou	0.00105 (average)	45 (weekly ave)
LAG531168	001	Lucky Dollar Casino	3053 Lobdell Hwy ; Port Allen	local drainage- ICWW - Bayou Plaquemine	0.005 (maximum)	45 (weekly ave)
LAG531169	001	Port Allen Inn Suites	3051 LA Hwy 1 S; Port Allen	LA Hwy 1 ditch - ICWW	0.0048 (average)	45 (weekly ave)
LAG531231		Poplar Grove Chapel Missionary Baptist Church	2303 Court St; Port Allen	ICWW	0.005 (maximum)	45 (weekly ave)
LAG531239		Player's Pub and Family Hair Care	3071 Rosedale Rd; Port Allen	Bayou Broussard	0.000875 (average)	45 (weekly ave)
LAG531362		LA DOTD	64145 Bayou Jacob Rd; Plaquemine	Grand River	0.0025 (maximum)	45 (weekly ave)
LAG531616		Thomas Pipe & Steel, LLC	2421 Northline Rd; Port Allen	Unnamed Ditch - Choctaw Basin - ICWW	0.0003 (maximum)	45 (weekly ave)
LAG531756		Dollar Distributing, Inc.	4119 Hwy 1 S; Port Allen	unnamed ditch - ICWW - Mississippi River	0.0041 (average) 0.005 (maximum)	45 (weekly ave)
LAG532260	003	Distribution International	950 Mahaffey Rd; Port Allen	ICWW	0.005 (maximum)	45 (weekly ave)
LAG532260	101	Distribution International	950 Mahaffey Rd; Port Allen	ICWW	0.0006 (average) 0.005 (maximum)	45 (weekly ave)
LAG532260	102	Distribution International	950 Mahaffey Rd; Port Allen	ICWW	0.0015 (average) 0.005 (maximum)	45 (weekly ave)

Table A-8. (Continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LAG540359		Best Western Magnolia Manor	234 Lobdell Hwy; Port Allen	unnamed ditch - ICWW	0.016525 (average)	30 (monthly ave) 45 (weekly ave)
LAG540627	001	S&R Mobile Home Park	6861 Hwy 1 S; Addis	Coulee Canal - Bayou Bourbeaux - ICWW	0.015 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540786	001	West Baton Rouge Ph Nat Gas & Wtr - Oak Alley Subdivision	39 Lot Rural Subd; Port Allen	unnamed ditch - Aillet Canal - Parish Canal - ICWW	0.0156 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540921		West Baton Rouge Ph Nat Gas & Wtr - Brittany Estates	3826 Chatelain Dr; Port Allen	Aillet Canal - ICWW	0.006 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540994	001	Chinese Inn	2763 Court St. ; Port Allen	ICWW	0.00575 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540994		Chinese Inn	1355 Francis Harriat; Port Allen	parish ditch - ICWW	0.00575 (average)	30 (monthly ave) 45 (weekly ave)
LAG540998	001	West Baton Rouge Work Release Ctr	1155 Northwest Dr., Bldg B; Port Allen	parish ditch - ICWW	0.00974 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG540998		West Baton Rouge Work Release Ctr	1155 Northwest Dr., Bldg B; Port Allen	ditch - ICWW	0.00974 (average)	30 (monthly ave) 45 (weekly ave)
LAG541105		Cash's Casino, Inc.	420 Lobdell Hwy; Port Allen	ICWW	0.00908 (average) 0.025 (maximum)	30 (monthly ave) 45 (weekly ave)
LAG560147		West Baton Rouge Natural Gas And Water Systems - Riverside Dr	2540 Riverside Dr; Port Allen	local drainage - Choctaw Basin Drainage Canal - ICWW	0.035 (average) 0.05 (maximum)	20 (monthly ave) 30 (weekly ave)
LAG560191	001	West Baton Rouge Ph Nat Gas & Wtr	4691 Hwy 1 S; Port Allen	hwy ditch - Choctaw Drainage - ICWW	0.036 (maximum)	20 (monthly ave) 30 (weekly ave)
LAG560192	001	Timberlane Trailer Park Oxidation Pond	Off LA Hwy 1148, Behind Timberlane Tp; Plaquemine	local drainage - Wilbert Canal - ICWW	0.0384 (average) 0.05 (maximum)	20 (monthly ave) 30 (weekly ave)
LAG560237		West Baton Rouge Parish - Freeman Lane WWTP	Rev. Manuel Ln/ Freeman Ln; Port Allen	ICWW	0.007 (average) 0.035 (maximum)	20 (monthly ave) 30 (weekly ave)
LAG570151	001	West Baton Rouge Nat Gas And Wtr - Fairview Estates Subdivision	4215 Hwy 1 S; Port Allen	ditch - Choctaw Basin Drainage Canal, ICWW	0.09 (maximum)	10 (monthly ave) 15 (weekly ave)

Table A-8. (Continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LAG570355	001	West Baton Rouge Parish Utilities, Beaulieu Stp No. 1	3197 Hwy 1 S; Port Allen	parish ditch - Phillips Canal - unnamed ditch - Tombstone Canal	0.0096 (average) 0.025 (maximum)	10 (monthly ave) 15 (weekly ave)
LAG570356	001	Choctaw Mhp, LLC	59655 Hwy 1148; Plaquemine	unnamed ditch - Wilbert's Canal - ICWW	0.0609 (average)	10 (monthly ave) 15 (weekly ave)
LAG750188		Corps of Engineers - Bayou Sorrel Lock	34505 Bayou Sorrel Rd; Plaquemine	GIWW Bayou Sorrel	0.00008 (average)	45 (weekly ave)

Table A-9. Point source discharge information for ammonia for subsegment 120109

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	NH3 (mg/L)
LA0068241		Brusly, Town of	end of Live Oak Dr; Brusly Landing	Choctaw Drainage Canal - ICWW	0.22298 (average) 0.7 (maximum)	5.46 (monthly ave) 10.92 (daily max)
LAG480319	101S	Criterion Catalyst & Technologies	1471 Safe Energy Drive; Port Allen	ICWW	0.00054 (average)	0.068 (daily max)

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MONITORING DATA TABLES AND PLOTS

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

Subsegment	Site ID	Site name	Date	Time	Sample depth (ft)	Water temp. (°C)	DO (mg/L)	Specific conductivity (µmhos/cm)	pH (s.u.)
120102	969	Bayou Poydras south of Erwinville	7/10/06	1100	3	24.6		140	7.5
				1230	1.2	27.4	3.6	800	7.4
	120102-A	Bayou Poydras north of Erwinville, LA	7/11/06	655	1	26.2	0.3	310	6.9
120103	336	Bayou Choctaw west of Port Allen, LA	7/11/06	1602	3	31.7	13.0	840	8.4
	120103-A	Tributary to Bayou Choctaw	7/12/06	1009	2	26.6	2.4	520	7.5
			7/13/06	1825	1.5	29.1	4.4	390	7.7
	120103-B	Bayou Tommy at LA Hwy 76	7/11/06	927	0.5	26.3	3.5	430	7.2
	120103-C	Bayou Choctaw NW of Intracoastal Waterway	7/12/06	1120	3	30.1	6.4	490	7.9
					6	28.9	2.9	510	7.5
					12	28.2	1.8	420	7.3
120105	971	Chamberlin Canal southeast of Erwinville	7/11/06	1503	2.5	28.3	3.8	491	7.7
	120105-A	Chamberlin Canal at Hwy 190	7/11/06	750	0.3	25.5	2.0	564	7.6
	120105-B	Stumpy Bayou at LA Hwy 76	7/11/06	1325	2.5	26.4	3.0	150	6.8
120106	972	Bayou Plaquemine southwest of Plaquemines	7/12/06	1543	3	31.7	9.3	340	8.5
					5	29.8	4.5	360	7.9
					9	28.9	2.0	370	7.7
	120106-A	Bayou Plaquemine at Plaquemine, LA	7/13/06	1700	2.5	32.1	13.0	510	8.7
			7/12/06	1712	3	31.0	10.4	500	8.4
120107	973	Upper Grand River, LA southwest of Plaquemines	7/13/06	1000	3	7.4	3.7	460	7.4
					5	29.6	3.1	460	7.2
	120107-A	Superior Canal NE of Grand River, LA	7/13/06	1204	2.5	30.0	5.5	420	7.6
	120107-B	Upper Grand River near levee	7/13/06	1232	2.5	31.1	3.5	400	7.3
	120107-C	Lower Flat River E of Grand River, LA	7/13/06	1109	2.5	30.0	3.9	400	7.3
120109	80	Lower Grand River at Bayou Sorrel, LA	7/13/06	1335	3	31.9	5.6	440	7.7
					8	30.3	4.1	430	7.5
					16	30.3	4.0	430	7.5
	975	Intracoastal Waterway near Indian Village	7/13/06	1740	3	31.4	5.4	410	7.7
					9	30.6	5.0	410	7.6
					18	30.6	4.8	410	7.6
			7/12/06	1445	3	29.5	4.2	340	7.5
					8	29.4	4.0	340	7.5
					15	29.3	3.6	340	7.4
			7/10/06	1635	3	30.4	4.9	441	7.7
	120109-A	Intracoastal Waterway at Port Allen, LA	7/12/06	1231	3	29.8	6.2	470	7.9
					7	29.6	6.1	470	7.9
					14	29.5	6.1	470	7.8
			7/13/06	1850	3	29.9	6.2	461	8.0
					16	29.9	6.2	461	8.0

Table B-1. (Continued)

Subsegment	Site ID	Site name	Date	Time	Sample depth (ft)	Water temp. (°C)	DO (mg/L)	Specific Conductivity (µmhos/cm)	pH (s.u.)
120109	120109-B	Intracoastal Waterway W of Brusly, LA	7/12/06	1331	3	30.2	5.1	420	7.8
					10	29.8	4.6	420	7.7
					19	29.7	4.5	420	7.7
			7/13/06	1920	3	30.9	5.9	440	8.0
					8	30.7	5.7	440	7.9
	120109-C	Intracoastal Waterway upstream of Bayou Choctaw	7/12/06	1140	3	29.8	5.4	420	7.7
					9	29.7	5.3	420	7.6
					17	29.7	5.3	417	7.7
	120109-D	Intracoastal Waterway W of Brusly, LA	7/12/06	915	3	29.5	5.0	410	7.7
					8	29.2	4.8	410	7.6
					15	29.2	4.7	410	7.6
	120109-E	Bayou Grosse Tete NW of Intracoastal Waterway	7/12/06	803	3	27.9	1.6	387	7.2
					6	27.9	1.6	387	7.2
					12	27.9	1.5	388	7.2
			7/13/06	1800	1.5	30.9	5.7	380	7.7
	120109-F	Intracoastal Waterway south of The Parks, LA	7/13/06	1422	3	30.6	4.5	340	7.4
					9	29.8	4.0	340	7.4
					16	29.7	3.9	340	7.4
120110	976	Bayou Chalpin southwest of Carey, LA	7/11/06	1140	3	28.5	4.5	480	7.5
	120110-A	Bayou Cholpe west of Erwinville	7/10/06	1845	0.9	24.9	4.0	98	6.0

Table B-2. Water quality data from July 2006

Subsegment	Site ID	Date	TSS (mg/L)	Total phos. (mg/L)	Chlorophyll *a* (µg/L)	TOC (mg/L)	TKN (mg/L)	Ammonia as N (mg/L)	NO_3 + NO_2 N (mg/L)
120102	969	07/11/06	100	0.57	0.100	12.00	2.50	0.13	0.79
	120102-A	07/11/06	34	1.40	< 0.02	9.80	1.80	0.26	< 0.04
120103	336	07/11/06	23	0.23	0.066	8.90	1.30	< 0.1	< 0.04
	120103-A	07/12/06	37	0.32	0.028	9.40	1.50	< 0.1	0.10
	120103-B	07/11/06	14	0.36	0.029	8.50	1.00	< 0.1	< 0.04
120105	971	07/11/06	51	0.42	0.060	11.00	2.20	0.14	0.04
	120105-A	07/11/06	5	0.45	< 0.02	11.00	1.30	0.12	0.07
	120105-B-1	07/11/06	14	0.36	0.029	8.50	1.00	< 0.1	< 0.04
	120105-B-2	07/13/06	240	Data not collected					2.6
120106	972	07/12/06	31	0.25	0.058	4.10	1.40	< 0.1	1.20
	120106-A	07/12/06	20	0.14	0.030	4.10	1.90	< 0.1	1.50

Table B-2. (Continued)

Subsegment	Site ID	Date	TSS (mg/L)	Total phos. (mg/L)	Chlorophyll *a* (µg/L)	TOC (mg/L)	TKN (mg/L)	Ammonia as N (mg/L)	NO_3 + NO_2 N (mg/L)
120107	973	07/13/06	50	0.24	0.026	4.40	1.20	< 0.1	0.89
	120107-B-1	7/13/06	22	0.22	0.064	6.90	1.40	< 0.1	< 0.04
	120107-B-2	7/13/06	21	0.44	0.090	6.80	1.40	< 0.1	< 0.04
	120107-B	7/13/06	28	0.28	0.032	6.70	1.40	< 0.1	< 0.04
	120107-C	7/13/06	46	0.32	0.038	8.70	1.50	< 0.1	< 0.04
120109	80	7/13/06	76	0.25	0.036	4.20	1.30	< 0.1	1.30
	975-1	7/12/06	150	0.35	< 0.02	4.30	1.20	< 0.1	1.70
	975-2	7/12/06	150	0.36	< 0.02	4.50	1.60	< 0.1	1.70
	120109-A	7/12/06	40	0.14	< 0.02	3.50	1.10	< 0.1	1.70
	120109-B	7/12/06	62	0.23	< 0.02	4.90	1.20	< 0.1	1.50
	120109-E	7/12/06	15	0.29	< 0.02	9.30	1.30	0.21	< 0.04
	120109-F	7/13/06	130	0.28	< 0.02	3.90	2.00	< 0.1	2.30
120110	976	7/11/06	55	0.26	0.067	8.70	1.60	< 0.1	0.04
	976-2	7/11/06	53	0.22	0.077	8.20	1.10	< 0.1	< 0.04
	120110-A	7/10/06	150	0.56	< 0.02	7.10	2.40	< 0.1	2.70

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

Subsegment	Site ID	$CBOD_3$ (mg/L)	$CBOD_5$ (mg/L)	$CBOD_{12}$ (mg/L)	$CBOD_{18}$ (mg/L)	$CBOD_{25}$ (mg/L)	$CBOD_u$ decay rate (1/day)	$CBOD_U$ (mg/L)
120102	969	6.0	8.1	14.0	24.0	23.0	0.06	30.67
	120102-A	2.7	4.0	7.8	--	17.0	0.03	31.03
120103	336	4.2	5.8	9.4	11.0	12.0	0.13	12.28
	120103-A	< 2	2.1	4.8	4.0	4.2	0.47	4.36
	120103-B	2.6	3.4	5.5	--	12.0	0.04	18.63
120105	971	2.8	4.2	8.4	8.6	9.7	0.21	9.28
	120105-A	< 2	< 2	< 2	--	2.7	--	--
	120105-B	< 2	3.7	7.0	8.6	9.6	0.09	10.80
120106	80	< 2	3.1	4.4	4.6	4.9	0.34	4.69
	972	3.0	4.4	6.9	14.0	14.0	0.04	23.99
	120106-A	< 2	2.8	5.2	4.8	4.8	0.27	5.05
120107	120107-B-1	3.9	5.7	8.4	10.0	11.0	0.14	11.08
	120107-B-2	3.9	5.8	7.3	11.0	12.0	0.10	12.77
	120107-B	2.5	3.7	5.1	13.0	13.0	0.04	22.44
	120107-C	2.6	4.1	5.3	13.0	14.0	0.03	25.52
120109	973	< 2	2.2	2.8	2.6	3.0	0.30	2.84
	975-1	< 2	2.4	3.4	2.3	2.3	0.58	2.66
	975-2	< 2	2.3	3.6	2.5	2.6	0.59	2.89
	120109-A	< 2	< 2	2.6	< 2	< 2	--	--

Table B-3. (Continued)

Subsegment	Site ID	$CBOD_3$ (mg/L)	$CBOD_5$ (mg/L)	$CBOD_{12}$ (mg/L)	$CBOD_{18}$ (mg/L)	$CBOD_{25}$ (mg/L)	$CBOD_u$ decay rate (1/day)	$CBOD_U$ (mg/L)
120109	120109-B	< 2	< 2	3.6	2.7	2.7	0.60	3.00
	120109-E	< 2	< 2	3.4	3.1	3.3	0.60	3.27
	120109-F	< 2	2.6	2.6	2.5	2.8	0.60	2.66
120110	976	2.0	3.0	4.4	6.0	6.3	0.11	6.76
	976-2	2.3	3.3	6.5	5.5	6.0	0.34	5.95
	120110-A	< 2	< 2	3.6	4.0	4.4	0.42	4.24

Table B-4. Summary of Acoustic Doppler Current Profiler data for 969

Station	969	
Run	R2	R3
Geometry		
Area (ft^2)	133	105
River width (ft)	59	48
Calculated average depth (ft)	2.3	2.2
Average depth (ft)	2.2	
Flows		
Total discharge (cfs)	8.31	9.64
Flow Dir (deg)	160.23	184.44
Average flow (cfs)	9.0	

Table B-5. Summary of Acoustic Doppler Current Profiler data for 120103-A, 120103-C, and 336

Station	120103-A		120103-C		336			
Run	R1	R2	R1	R2	R1	R2	R3	R5
Geometry								
Area (ft^2)	113	111	1570	1563	1289	1203	1422	1335
River width (ft)	35	34	170	170	133	128	143	145
Calculated average depth (ft)	3.2	3.2	9.2	9.2	9.7	9.4	9.9	9.2
Average depth (ft)	3.2		9.2		9.6			
Flows								
Total discharge (cfs)	10.93	5.69	-77.4	-74.2	89.9	111.8	267.8	238.7
Flow Dir (deg)	222.77	226.57	3.65	295.11	108.5	156.5	105.1	140.0
Average flow (cfs)	8.3		-75.8		177.1			

Table B-6. Summary of Acoustic Doppler Current Profiler data for 120105-B and 971

Station	120105-B			971		
Run	R1	R2	R3	R1	R2	R3
Geometry						
Area (ft^2)	188	186	181	159	150	181
River width (ft)	60	59	58	53	51	62
Calculated average depth (ft)	3.1	3.1	3.1	3.0	2.9	2.9
Average depth (ft)	3.1			3.0		
Flows						
Total discharge (cfs)	3.25	9.85	27.2	-5.37	-4.86	-7.8

Table B-6. (Continued)

Station	120105-B			971		
Run	R1	R2	R3	R1	R2	R3
Flow Dir (deg)	218.74	206.16	218.42	23.4	32.28	25.43
Average flow (cfs)	13.4			-6.0		

Table B-7. Summary of Acoustic Doppler Current Profiler data for 120106-A and 972

Station	120106-A	972
Run	R3	R3
Geometry		
Area (ft^2)	903	1225
River width (ft)	207	230
Calculated average depth (ft)	4.4	5.3
Average depth (ft)	4.4	5.3
Flows		
Total discharge [cfs]	39	257
Flow Dir [deg]	5.7	128.6
Average flow [cfs]	39.2	257.1

Table B-8. Summary of Acoustic Doppler Current Profiler data for 120107-A, 120107-B, 120107-C, and 973

Station	120107-A		120107-B		120107-C			973
Run	R1	R2	R1	R2	R1	R2	R3	R1
Geometry								
Area (ft^2)	454	435	944	1057	898	101	913	865.65
River width (ft)	116	109	263	318	265	60	275	205.27
Calculated average depth (ft)	3.9	4.0	3.6	3.3	3.4	1.7	3.3	4.2
Average depth (ft)	3.9		3.5		2.8			4.2
Flows								
Total discharge (cfs)	29.88	38.55	133.93	145	55.12	3.94	83.9	334.8
Flow Dir (deg)	143.9	151.8	72.4	83.55	105.97	81.46	130.28	95.54
Average flow (cfs)	34.2		139.5		47.7			334.8

Table B-9. Summary of Acoustic Doppler Current Profiler data for 120109-B, 120109-E, 120109-F, and 975

Station	120109-B	120109-E			120109-F			975
Run	R1	R1	R2	R3	R1	R2	R3	R2
Geometry								
Area (ft^2)	3115	622	620	649	3415	3322	3342	3519.1
River width (ft)	250	92	93	100	295	289	287	299.43
Calculated average depth (ft)	12.5	6.7	6.6	6.5	11.6	11.5	11.6	11.8
Average depth (ft)	12.5	6.6			11.6			
Flows								
Total discharge (cfs)	82.07	43.01	55.58	45.66	1016.3	733.35	667.45	490
Flow Dir (deg)	181.5	123.3	127.7	131.1	202.1	193.5	175.8	176.83
Average flow (cfs)	82.1	48.1			805.7			

Table B-10. Summary of Acoustic Doppler Current Profiler data for 976

Station	976		
Run	R1	R2	R4
Geometry			
Area (ft^2)	538	519	520
River width (ft)	84	79	79
Calculated average depth (ft)	6.4	6.6	6.6
Average depth (ft)	6.5		
Flows			
Total discharge (cfs)	83.04	-1.73	-8.18
Flow Dir (deg)	249.8	328.0	342.7
Average flow (cfs)	24.4		

Table B-11. Available total nitrite+nitrate data for the Upper Terrebonne Basin

Subsegment	Station	Station name	Period of record	No. of Obs.	Total NO_2+NO_3 minimum (mg/L)	Total NO_2+NO_3 maximum (mg/L)	Total NO_2+NO_3 average (mg/L)
120405	936	Lake Hatch and Lake Theriot	1/26/00-8/23/05	22	0.03	1.17	0.37
120406	937	Lake de Cade	1/12/00-11/27/06	29	0.02	0.52	0.19

Table B-12. Available total Kejldahl nitrogen data for the Upper Terrebonne Basin

Subsegment	Station	Station name	Period of record	No. of Obs.	TKN minimum (mg/L)	TKN maximum (mg/L)	TKN average (mg/L)
120405	936	Lake Hatch and Lake Theriot	1/26/00-8/23/05	23	0.6	1.6	0.89
120406	937	Lake de Cade	1/12/00-11/27/06	36	0.54	1.55	0.95

Table B-13. Available total phosphorus data for the Upper Terrebonne Basin

Subsegment	Station	Station name	Period of record	No. of Obs.	Total phos. minimum (mg/L)	Total phos. maximum (mg/L)	Total phos. average (mg/L)
120405	936	Lake Hatch and Lake Theriot	1/26/00-8/23/05	23	0.06	0.18	0.11
120406	937	Lake de Cade	1/12/00-11/27/06	34	0.06	0.26	0.11

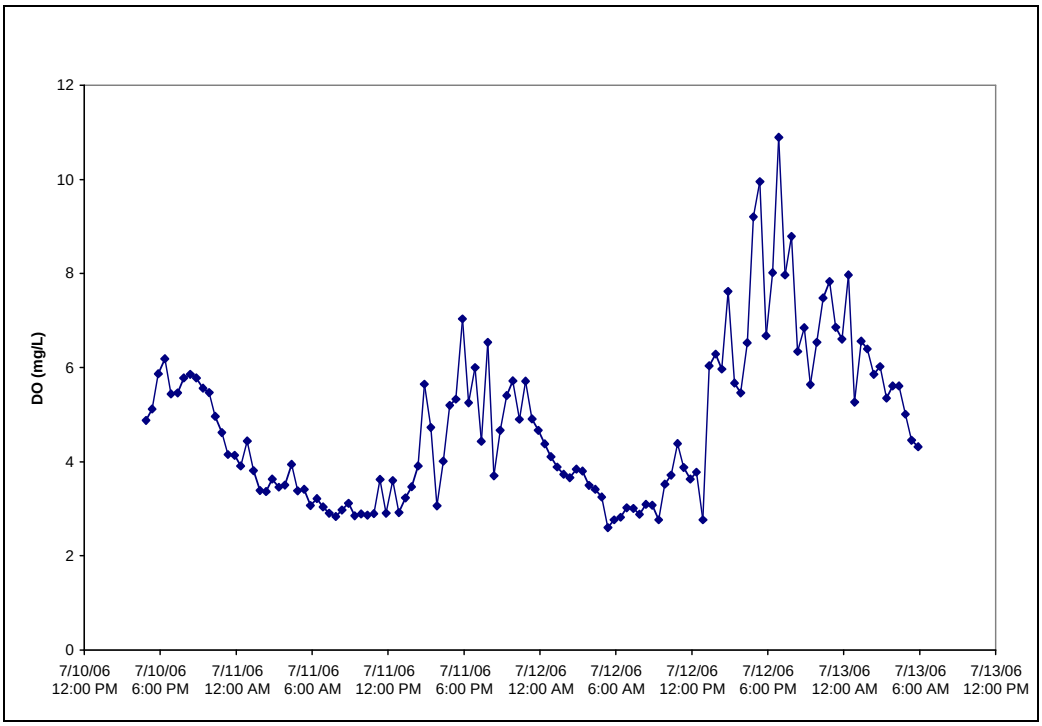

Figure B-1. Continuous dissolved oxygen data observed at Intracoastal Waterway near Indian Village at station 975.

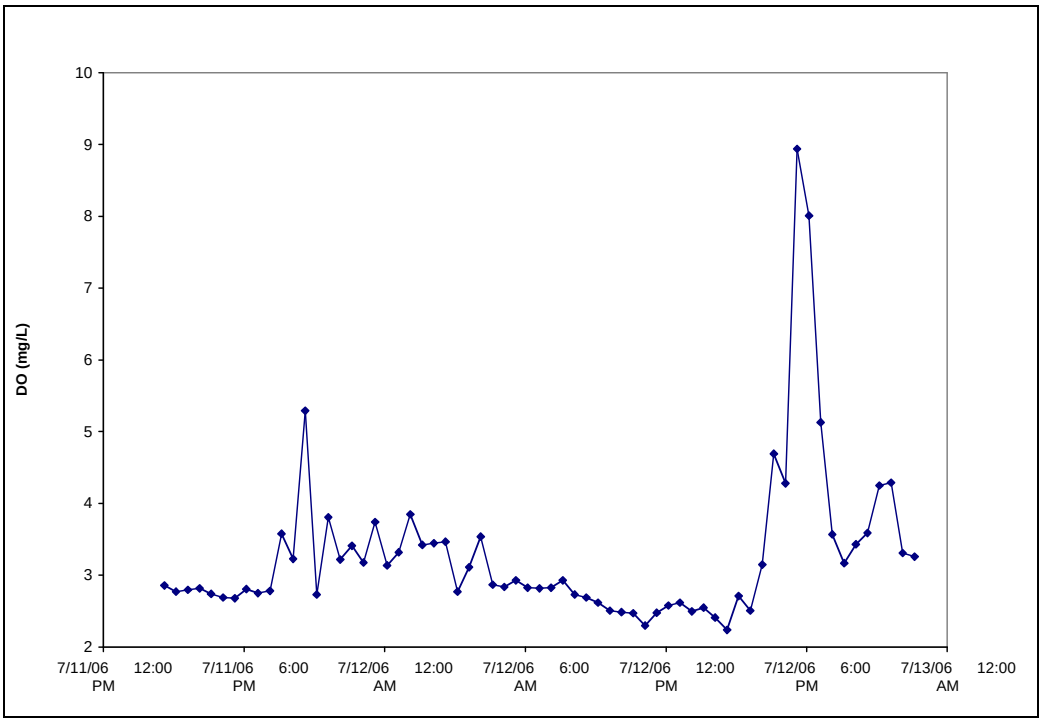

Figure B-2. Continuous dissolved oxygen data observed at Stumpy Bayou at LA Highway 76 at station 120105-B.

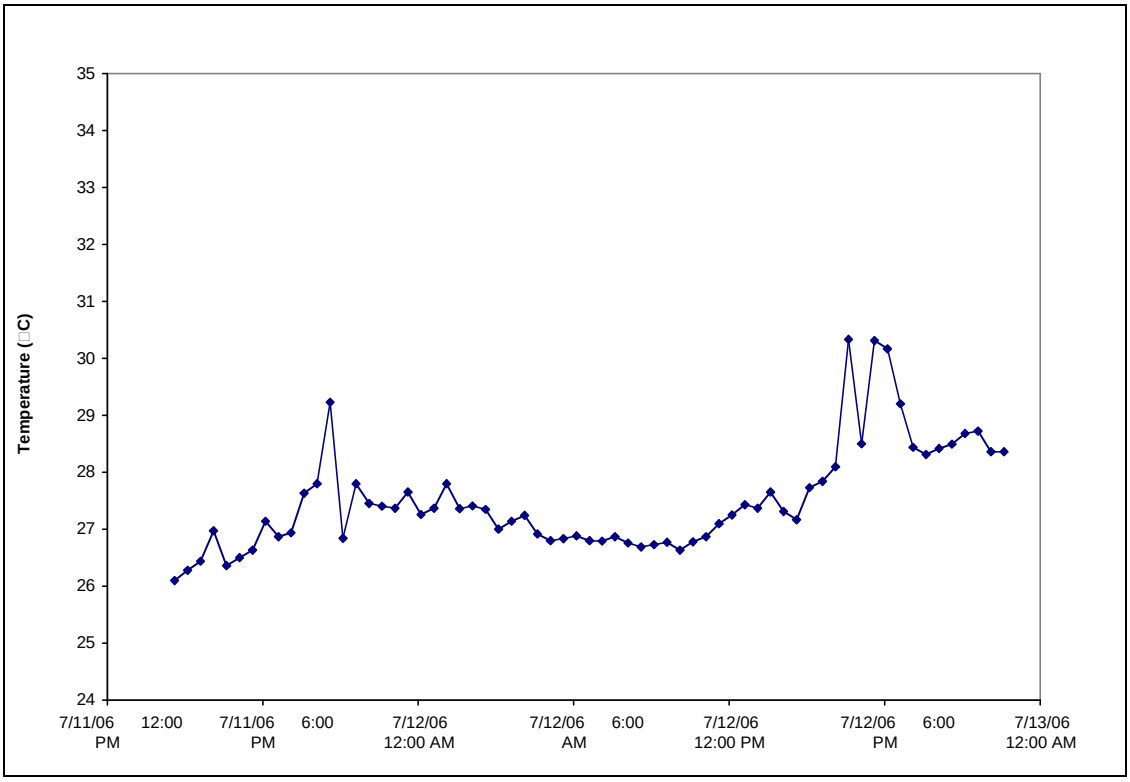

Figure B-3. Continuous temperature for Upper Terrebonne Basin at station 120105-B.

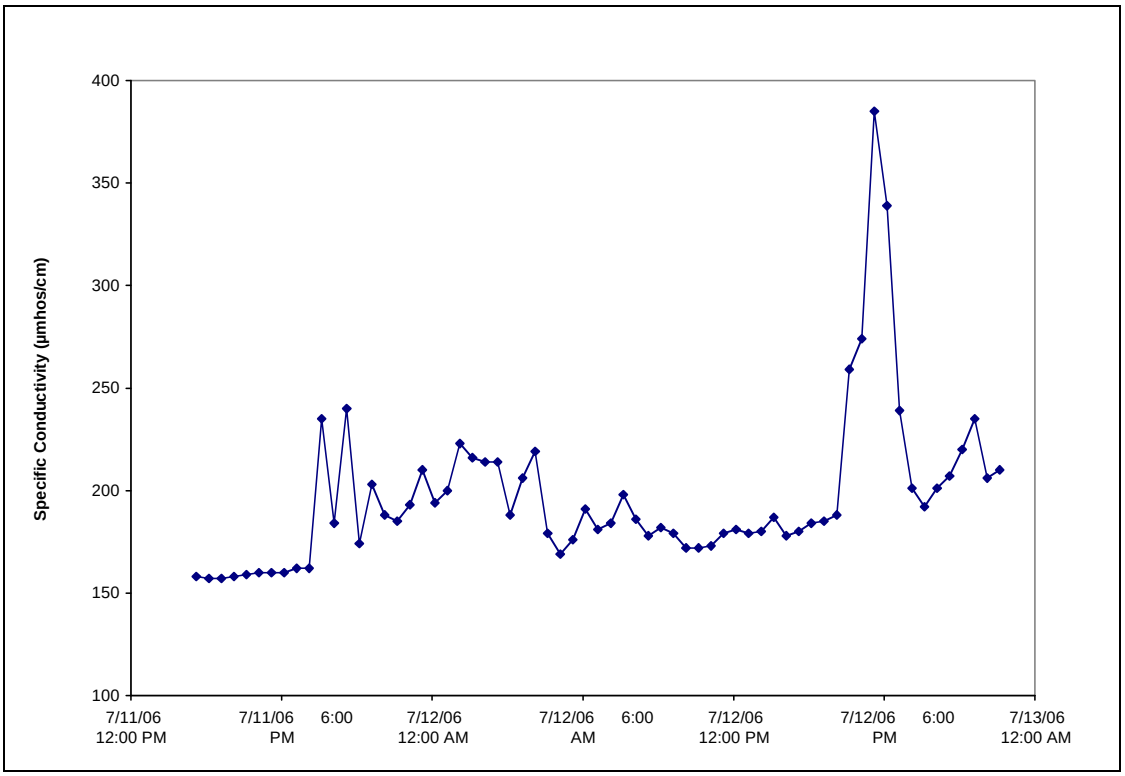

Figure B-4. Continuous specific conductivity for Upper Terrebonne Basin at station 120105-B.

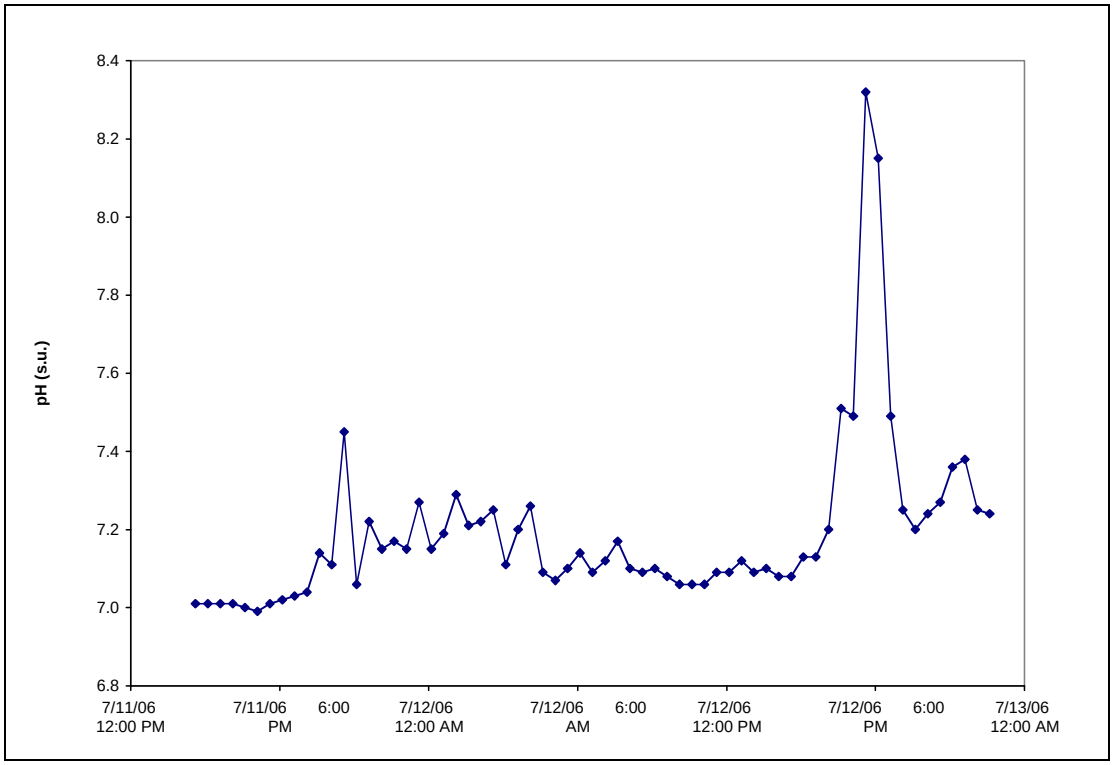

Figure B-5. Continuous pH for Upper Terrebonne Basin at station 120105-B.

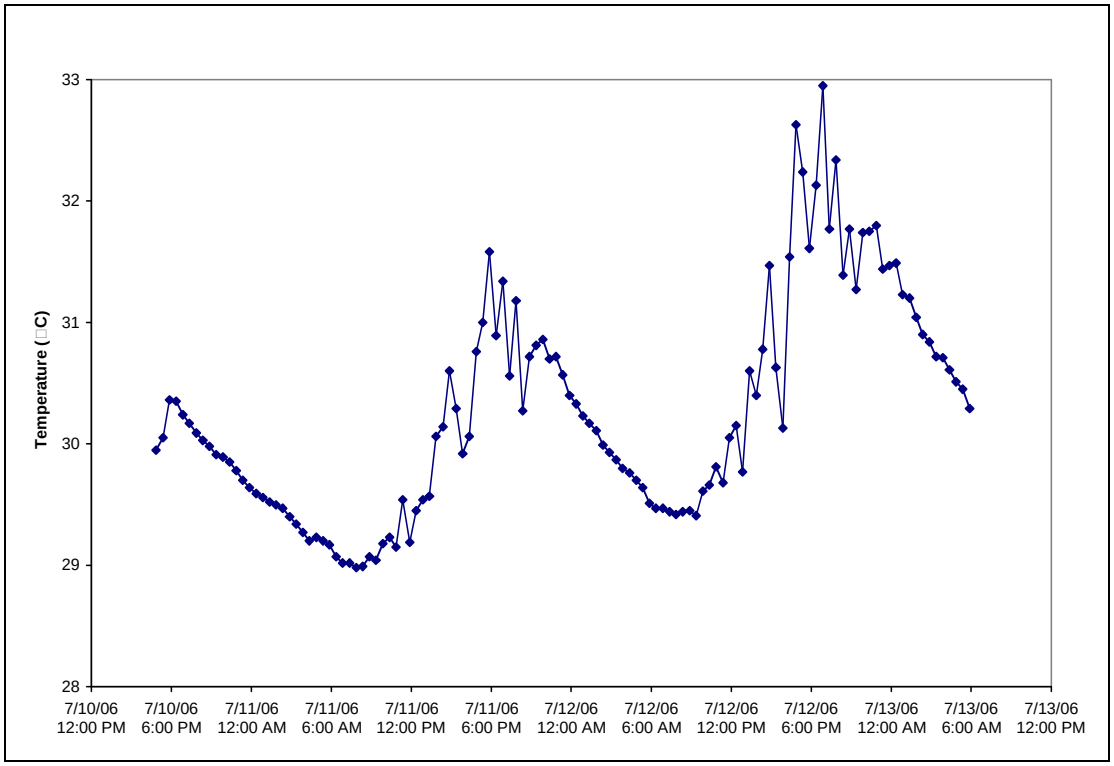

Figure B-6. Continuous temperature for Upper Terrebonne at station 975.

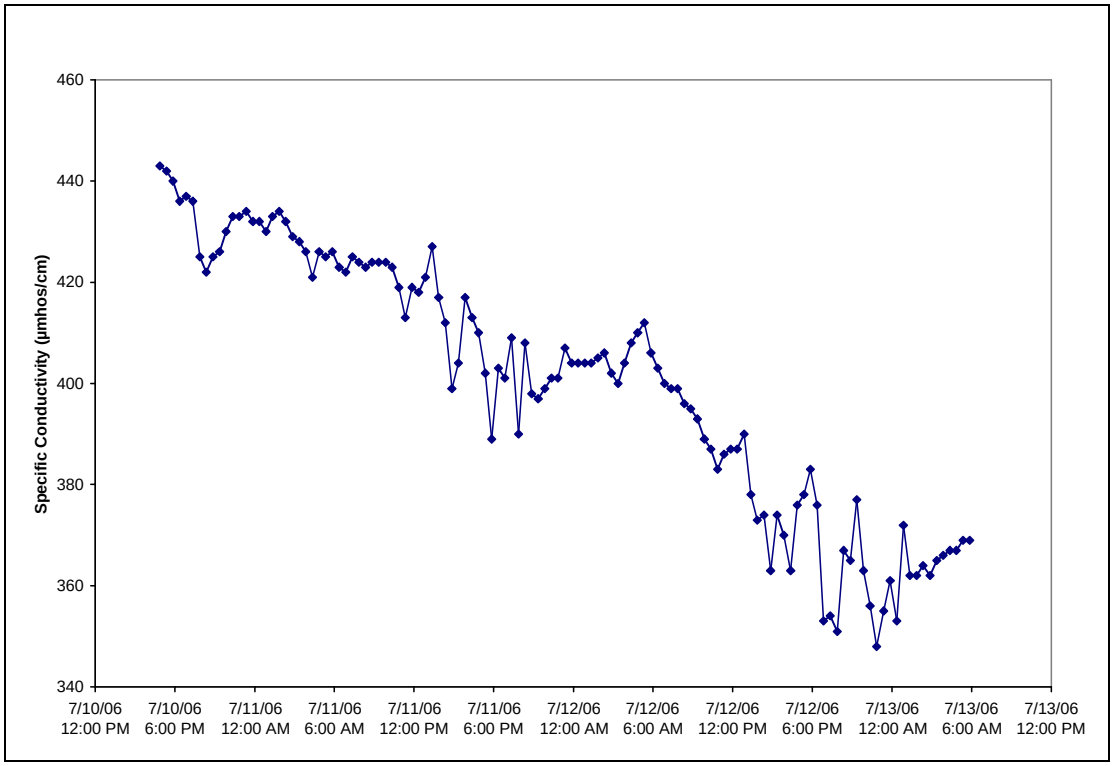

Figure B-7. Continuous specific conductivity for Upper Terrebonne at station 975.

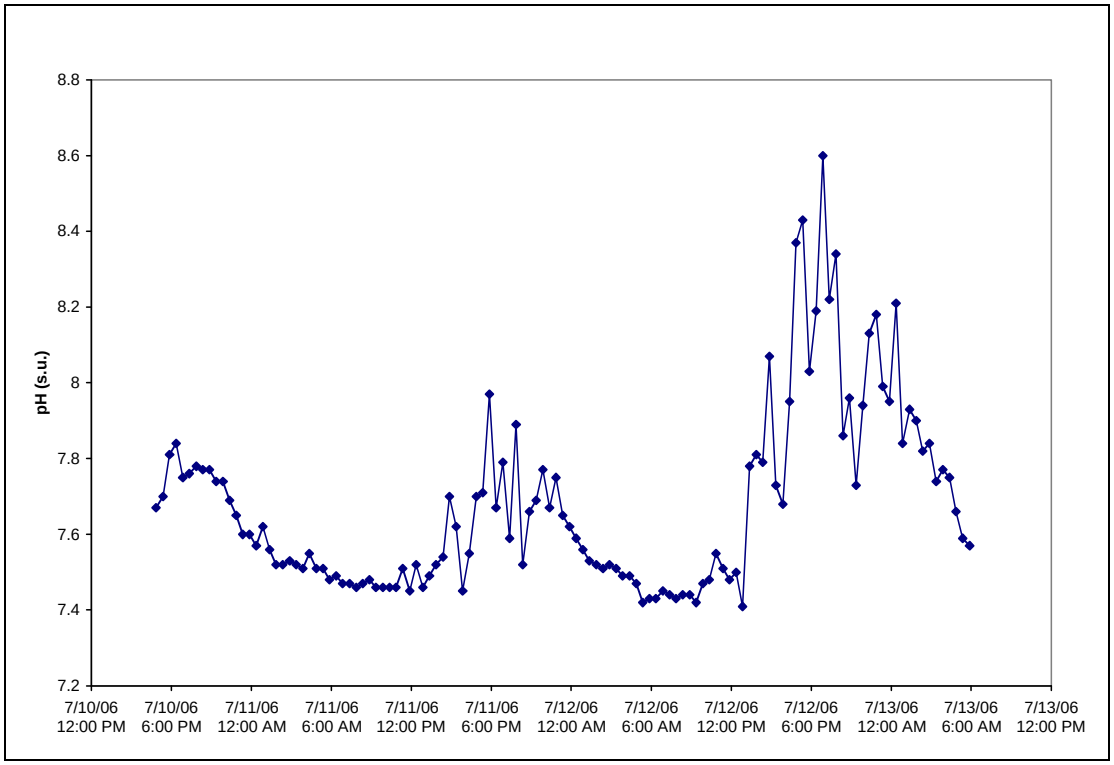

Figure B-8. Continuous pH for Upper Terrebonne Basin at station 975.

APPENDIX C:
MODEL VECTOR DIAGRAMS

Figure C-1. Vector diagram for subsegment 120102 2
Figure C-2. Vector diagram for subsegment 120103 3
Figure C-3. Vector diagram for subsegment 120105 4
Figure C-4. Vector diagram for subsegment 120106 5
Figure C-5. Vector diagram for subsegment 120107 6
Figure C-6. Vector diagram for subsegment 120109 7
Figure C-7. Vector diagram for subsegment 120110 8
Figure C-8 Combined vector diagram for the upper Terrebonne Basin 9

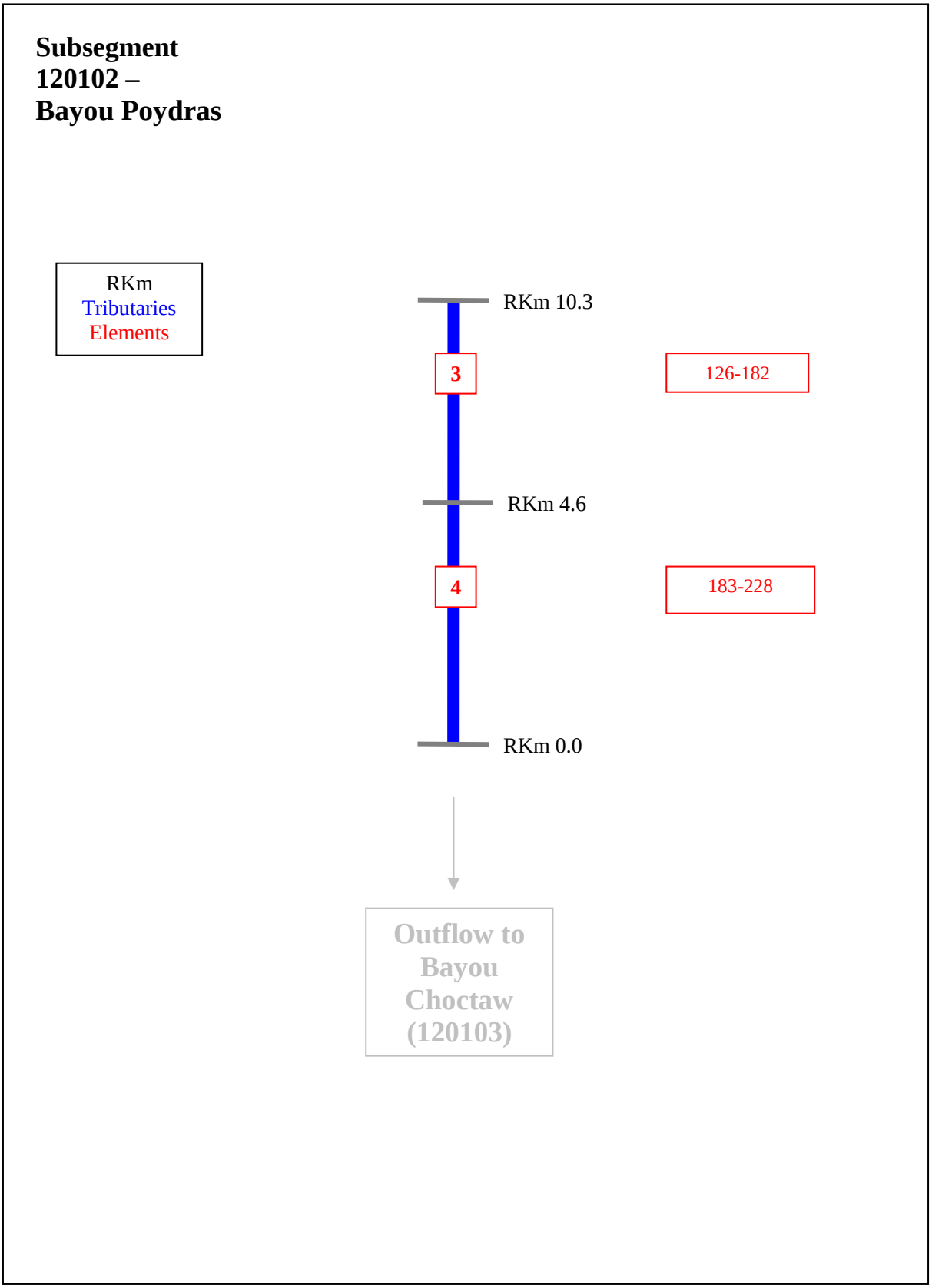

Figure C-1. Vector diagram for subsegment 120102

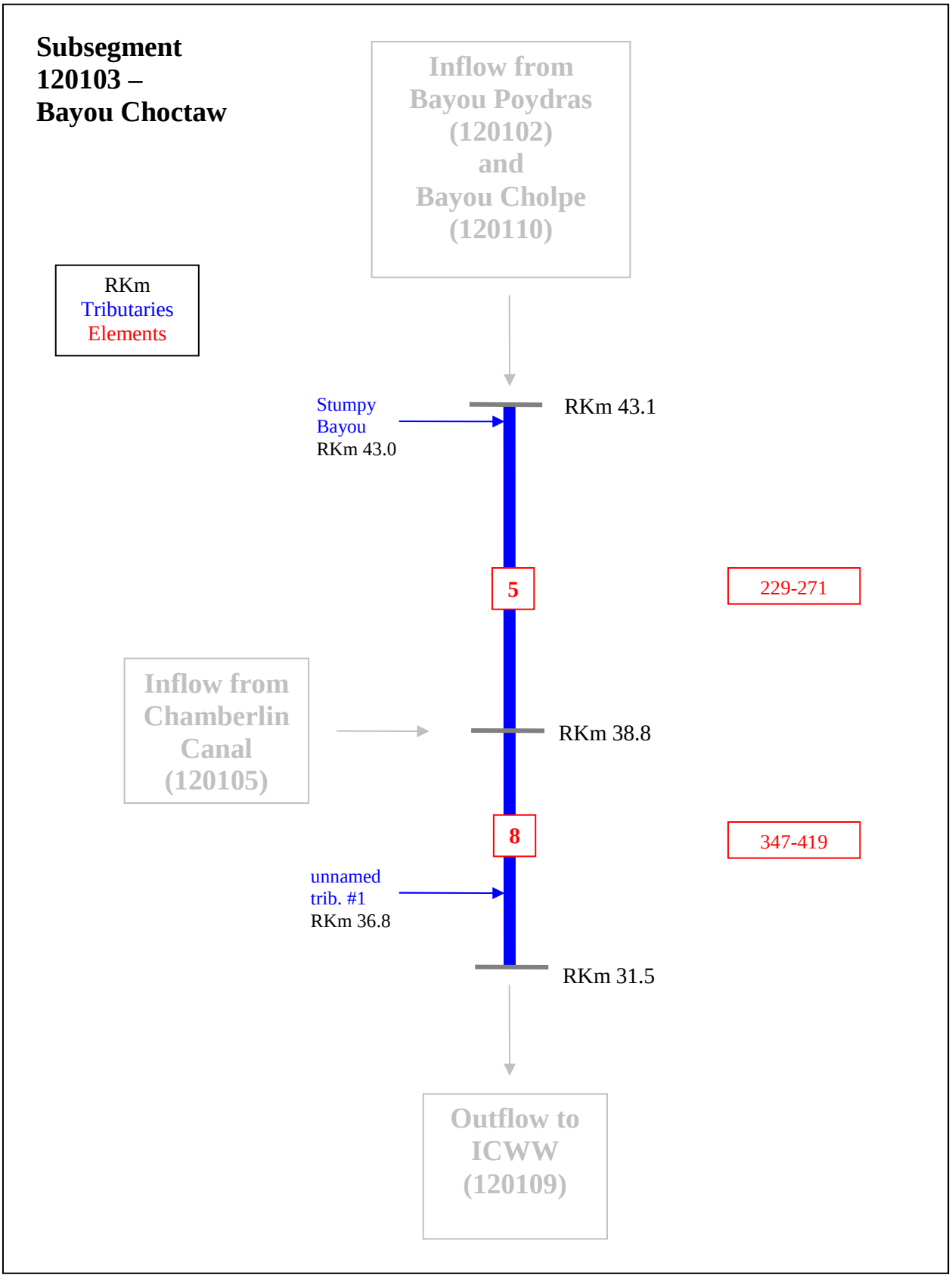

Figure C-2. Vector diagram for subsegment 120103

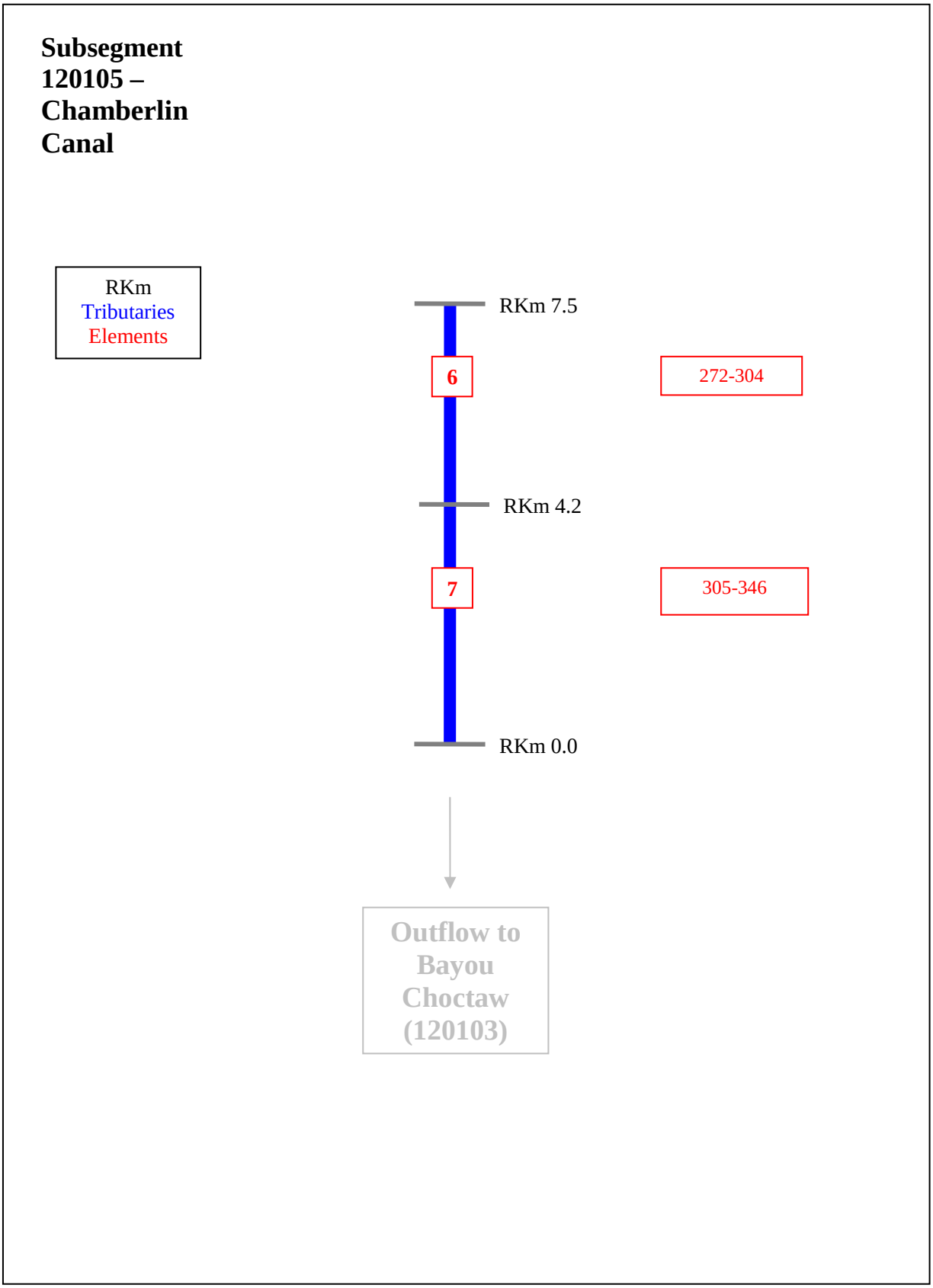

Figure C-3. Vector diagram for subsegment 120105

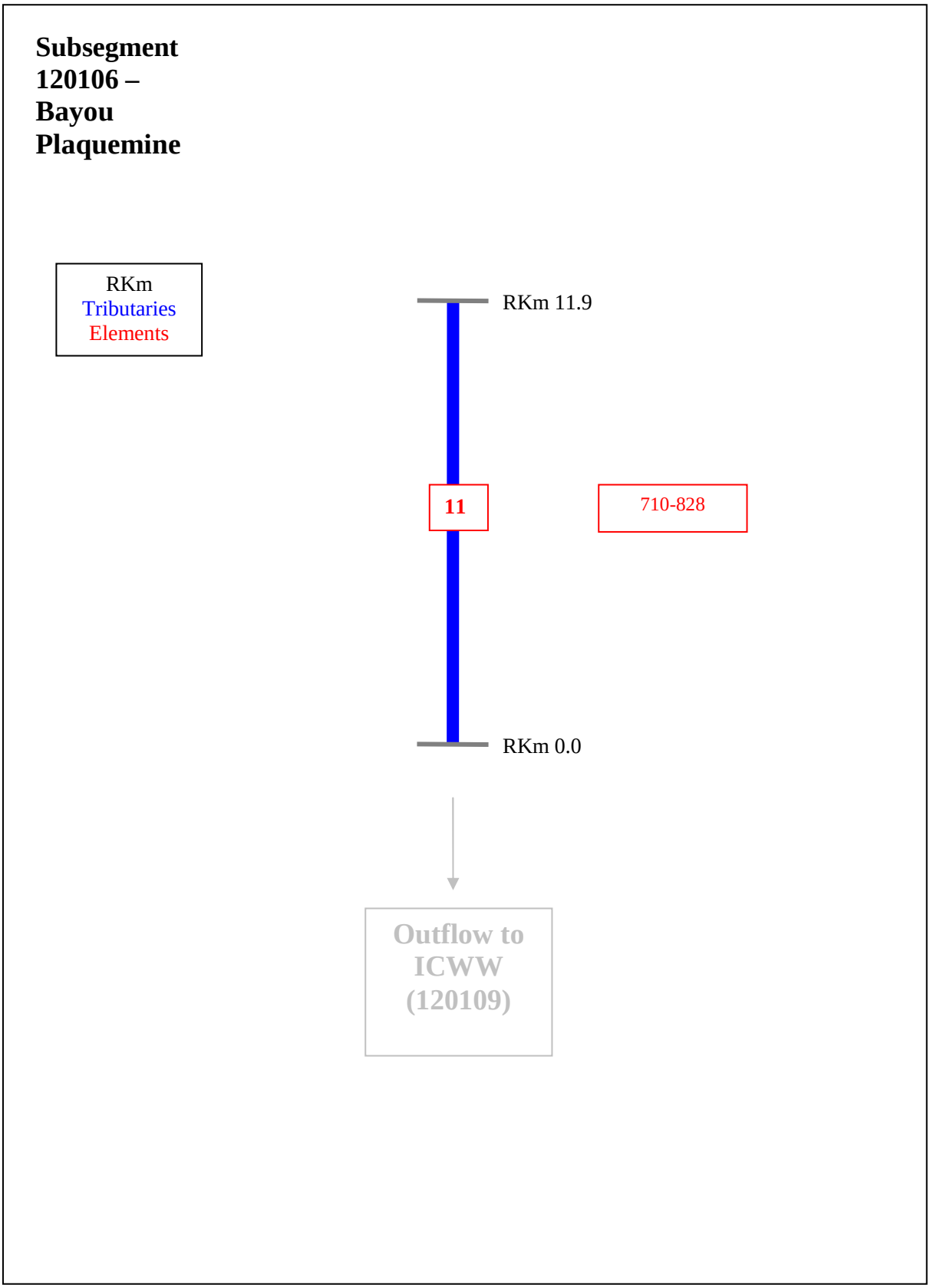

Figure C-4. Vector diagram for subsegment 120106

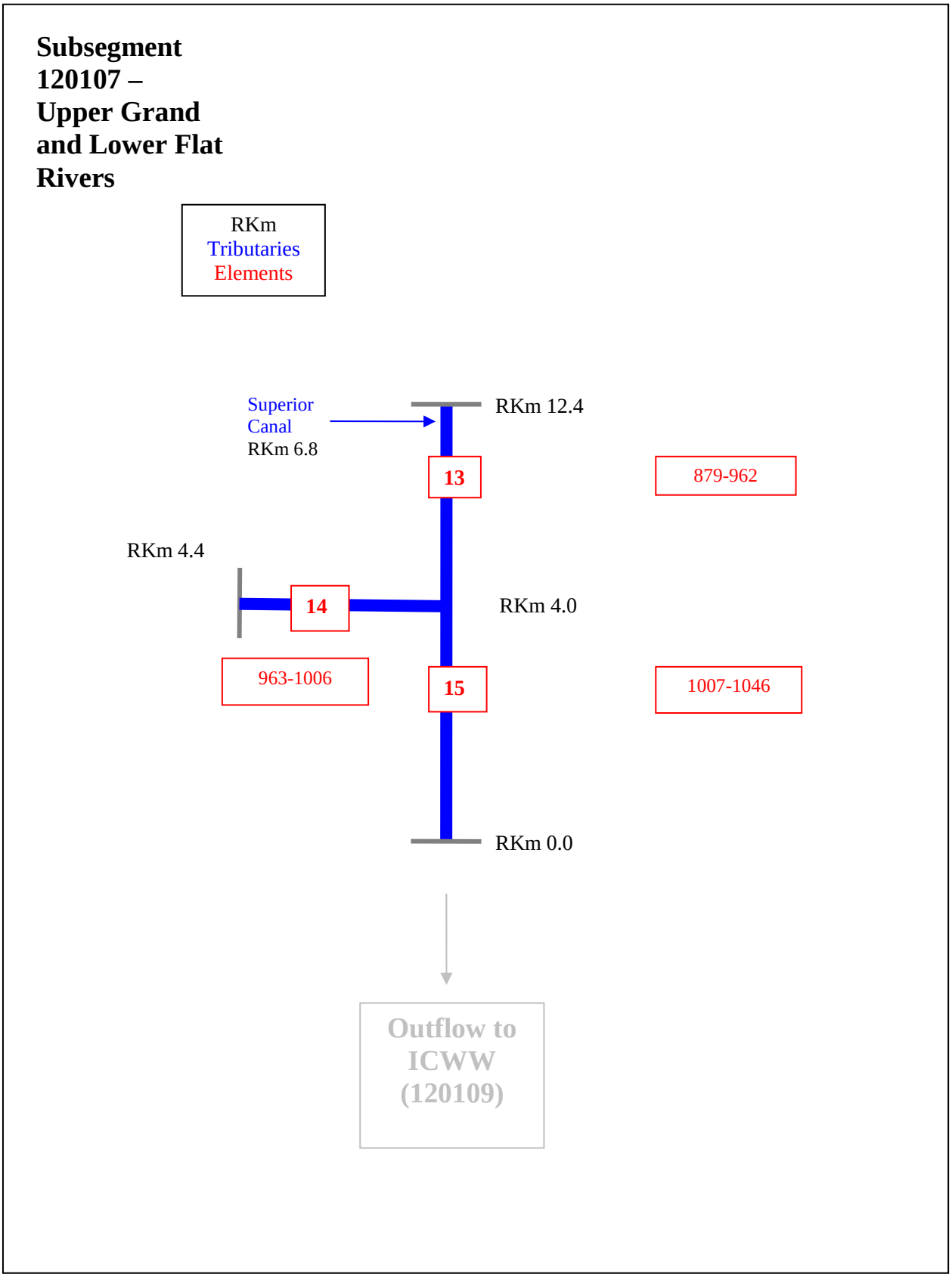

Figure C-5. Vector diagram for subsegment 120107

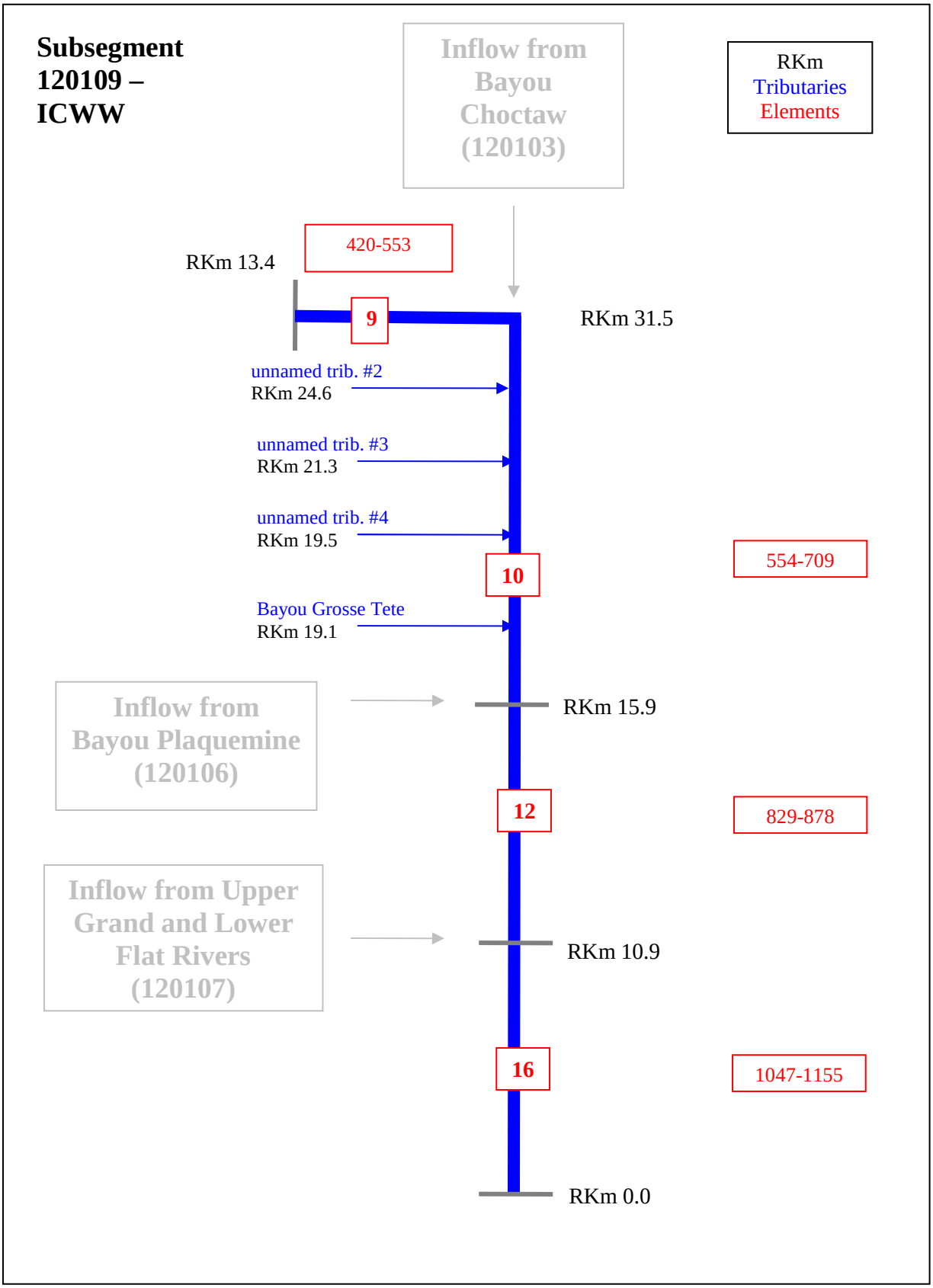

Figure C-6. Vector diagram for subsegment 120109

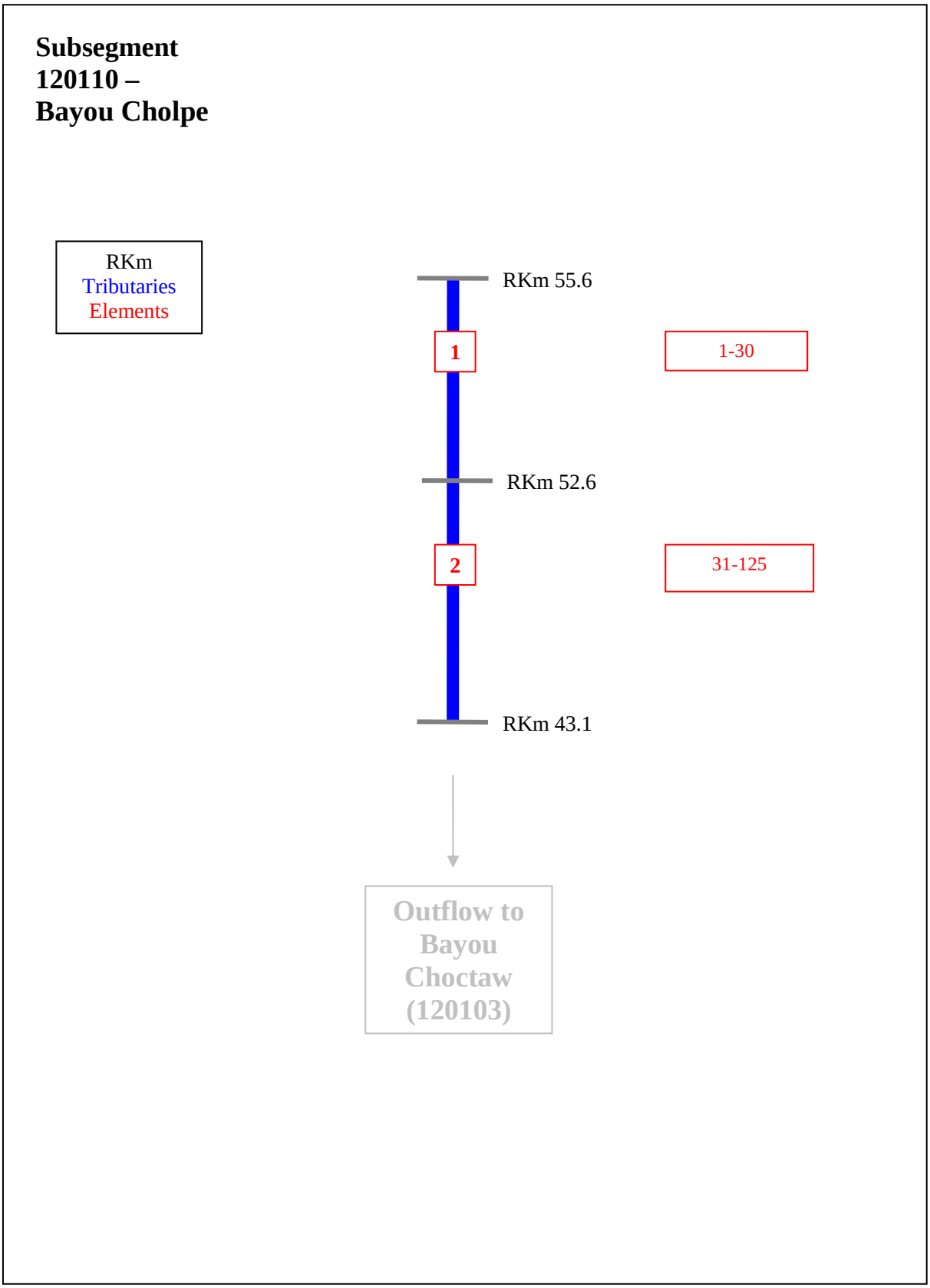

Figure C-7. Vector diagram for subsegment 120110

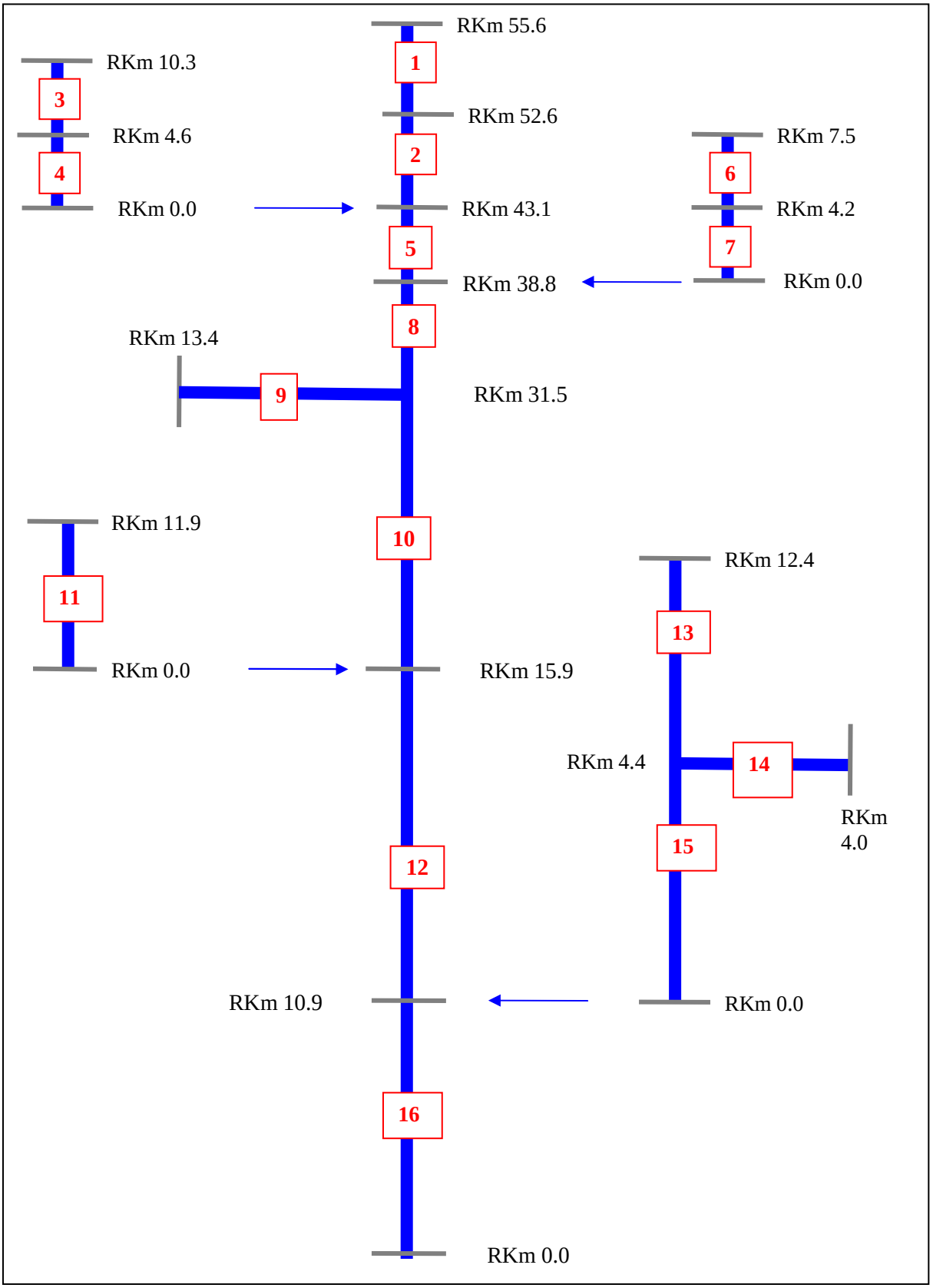

Figure C-8 Combined vector diagram for the upper Terrebonne Basin

APPENDIX D:
MODEL OUTPUT FOR CALIBRATION

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is D:\LA TMDL 2006\TO95\TT_Models\upperT\Upper Terrebonne calibration_wha.txt
Output produced at 14:54 on 10/08/2007

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

CARD TYPE      CONTROL TITLES

TITLE01        LA-QUAL Model for Upper Terrebonne
TITLE02        Calibration Simulation for Upper Terrebonne model
CONTROL   YES   METR
ENDATA01

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

CARD TYPE      MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03   NO   CONSERVATIVE MATERIAL #1                    UNITS =
MODOPT04   NO   CONSERVATIVE MATERIAL #2                    UNITS =
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND #1
MODOPT07   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND #2
MODOPT08  YES   NITROGEN SERIES
MODOPT09   NO   PHOSPHORUS
MODOPT10   NO   CHLOROPHYLL A
MODOPT11   NO   MACROPHYTES
MODOPT12   NO   COLIFORMS
MODOPT13   NO   NONCONSERVATIVE MATERIAL                    UNITS =
ENDATA02

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

PROGRAM        HYDRAULIC CALCULATION METHOD      =        2.00000 (widths and depths)
ENDATA03

$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE
```

ENDATA05

$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$

CARD TYPE DESCRIPTION OF CONSTANT VALUE

ENDATA06

$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$

CARD TYPE DESCRIPTION OF CONSTANT VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$

CARD TYPE	REACH ID	NAME	BEGIN km		END km	ELEM km	REACH km	REACH	ELEMS LENGTH NUM	BEGIN LENGTH NUM	END PER RCH	ELEM	ELEM
REACH ID	1	B1 Bayou Cholpe #1	55.60	TO	52.60	0.1000	3.00	30	1	30			
REACH ID	2	B2 Bayou Cholpe #2	52.60	TO	43.10	0.1000	9.50	95	31	125			
REACH ID	3	P1 Bayou Poydras #1	10.30	TO	4.60	0.1000	5.70	57	126	182			
REACH ID	4	P2 Bayou Poydras #2	4.60	TO	0.00	0.1000	4.60	46	183	228			
REACH ID	5	CH Choctaw Bayou #1	43.10	TO	38.80	0.1000	4.30	43	229	271			
REACH ID	6	C1 Chamberlin Canal #1	7.50	TO	4.20	0.1000	3.30	33	272	304			
REACH ID	7	C2 Chamberlin Canal #2	4.20	TO	0.00	0.1000	4.20	42	305	346			
REACH ID	8	CW Choctaw Bayou #2	38.80	TO	31.50	0.1000	7.30	73	347	419			
REACH ID	9	I1 Intracoastal Waterway #1	13.40	TO	0.00	0.1000	13.40	134	420	553			
REACH ID	10	I2 Intracoastal Waterway #2	31.50	TO	15.90	0.1000	15.60	156	554	709			
REACH ID	11	BP Bayou Plaquemine	11.90	TO	0.00	0.1000	11.90	119	710	828			
REACH ID	12	I3 Intracoastal Waterway #3	15.90	TO	10.90	0.1000	5.00	50	829	878			
REACH ID	13	U1 Upper Grand River #1	12.40	TO	4.00	0.1000	8.40	84	879	962			
REACH ID	14	LF Lower Flat River	4.40	TO	0.00	0.1000	4.40	44	963	1006			
REACH ID	15	U2 Upper Grand River #2	4.00	TO	0.00	0.1000	4.00	40	1007	1046			
REACH ID	16	I4 Intracoastal Waterway #4	10.90	TO	0.00	0.1000	10.90	109	1047	1155			

ENDATA08

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

CARD TYPE	REACH ID	WIDTH "A"	WIDTH "B"	WIDTH "C"	WIDTH "D"	WIDTH "E"	DEPTH "F"	DEPTH "N"	DEPTH	SLOPE	MANNINGS
HYDR-1	1 B1	0.000	0.000	1.000	0.000	0.000	0.250	0.00000	0.000		
HYDR-1	2 B2	0.000	0.000	10.000	0.000	0.000	1.000	0.00000	0.000		
HYDR-1	3 P1	0.000	0.000	4.000	0.000	0.000	0.300	0.00000	0.000		
HYDR-1	4 P2	0.000	0.000	8.000	0.000	0.000	0.600	0.00000	0.000		
HYDR-1	5 CH	0.000	0.000	34.000	0.000	0.000	2.400	0.00000	0.000		
HYDR-1	6 C1	0.000	0.000	2.000	0.000	0.000	0.100	0.00000	0.000		
HYDR-1	7 C2	0.000	0.000	5.000	0.000	0.000	0.300	0.00000	0.000		

```
HYDR-1     8  CW     0.000     0.000    47.000     0.000     0.000     2.800    0.00000  0.000
HYDR-1     9  I1     0.000     0.000    76.000     0.000     0.000     3.000    0.00000  0.000
HYDR-1    10  I2     0.000     0.000    76.000     0.000     0.000     3.000    0.00000  0.000
HYDR-1    11  BP     0.000     0.000    30.000     0.000     0.000     1.100    0.00000  0.000
HYDR-1    12  I3     0.000     0.000    80.000     0.000     0.000     3.200    0.00000  0.000
HYDR-1    13  U1     0.000     0.000    88.000     0.000     0.000     1.100    0.00000  0.000
HYDR-1    14  LF     0.000     0.000    64.000     0.000     0.000     0.800    0.00000  0.000
HYDR-1    15  U2     0.000     0.000    62.000     0.000     0.000     1.300    0.00000  0.000
HYDR-1    16  I4     0.000     0.000    70.000     0.000     0.000     2.500    0.00000  0.000
ENDATA09

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

CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                RANGE     "A"         "B"         "C"         "D"

ENDATA10

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

CARD TYPE     REACH  ID      TEMP    SALIN      DO      NH3    NO3+2     PHOS    CHL A    MACRO

INITIAL        1  B1     24.60     0.00     4.08     0.20     0.00     0.00     0.00     0.00
INITIAL        2  B2     29.00     0.00     5.15     0.20     0.00     0.00     0.00     0.00
INITIAL        3  P1     27.00     0.00     0.31     0.20     0.00     0.00     0.00     0.00
INITIAL        4  P2     27.00     0.00     0.31     0.20     0.00     0.00     0.00     0.00
INITIAL        5  CH     29.00     0.00     5.15     0.20     0.00     0.00     0.00     0.00
INITIAL        6  C1     26.30     0.00     2.15     0.20     0.00     0.00     0.00     0.00
INITIAL        7  C2     29.00     0.00     4.86     0.20     0.00     0.00     0.00     0.00
INITIAL        8  CW     31.30     0.00    16.18     0.20     0.00     0.00    66.00     0.00
INITIAL        9  I1     29.80     0.00     7.42     0.20     0.00     0.00     0.00     0.00
INITIAL       10  I2     30.40     0.00     6.31     0.20     0.00     0.00     0.00     0.00
INITIAL       11  BP     29.10     0.00     4.07     0.20     0.00     0.00    58.00     0.00
INITIAL       12  I3     29.30     0.00     2.49     0.20     0.00     0.00     0.00     0.00
INITIAL       13  U1     31.50     0.00     3.33     0.20     0.00     0.00    32.00     0.00
INITIAL       14  LF     30.50     0.00     5.45     0.20     0.00     0.00     0.00     0.00
INITIAL       15  U2     30.80     0.00     3.20     0.20     0.00     0.00    38.00     0.00
INITIAL       16  I4     30.10     0.00     2.72     0.20     0.00     0.00     0.00     0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                    BOD    ANAER                    BOD2    ANAER
CARD    RCH  RCH  K2              K2     K2     K2  BKGRND     BOD     BOD    CONV    BOD2    BOD2    BOD2    CONV    BOD2
TYPE    NUM   ID  OPT            "A"    "B"    "C"     SOD   DECAY    SETT  TO SOD   DECAY   DECAY    SETT  TO SOD   DECAY
                                      g/m≤/d  per day     m/d           per day  per day     m/d           per day

COEFF-1   1  B1   3 OCONNER-DOBB   0.000   0.000   0.000   0.700   0.130   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   2  B2   3 OCONNER-DOBB   0.000   0.000   0.000   0.700   0.130   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   3  P1   3 OCONNER-DOBB   0.000   0.000   0.000   1.000   0.100   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   4  P2   3 OCONNER-DOBB   0.000   0.000   0.000   0.900   0.100   0.000   0.000   0.000   0.000   0.000   0.000   0.000
```

```
COEFF-1   5  CH   3 OCONNER-DOBB   0.000   0.000   0.000   3.000   0.110   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   6  C1   3 OCONNER-DOBB   0.000   0.000   0.000   1.300   0.130   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   7  C2   3 OCONNER-DOBB   0.000   0.000   0.000   1.300   0.130   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   8  CW   3 OCONNER-DOBB   0.000   0.000   0.000   1.000   0.110   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   9  I1   3 OCONNER-DOBB   0.000   0.000   0.000   0.500   0.130   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  10  I2   3 OCONNER-DOBB   0.000   0.000   0.000   1.300   0.130   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  11  BP   3 OCONNER-DOBB   0.000   0.000   0.000   0.500   0.110   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  12  I3   3 OCONNER-DOBB   0.000   0.000   0.000   0.700   0.200   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  13  U1   3 OCONNER-DOBB   0.000   0.000   0.000   1.600   0.300   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  14  LF   3 OCONNER-DOBB   0.000   0.000   0.000   1.300   0.300   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  15  U2   3 OCONNER-DOBB   0.000   0.000   0.000   1.600   0.300   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  16  I4   3 OCONNER-DOBB   0.000   0.000   0.000   0.700   0.200   0.000   0.000   0.000   0.000   0.000   0.000   0.000
ENDATA12

$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$

CARD TYPE    REACH  ID     ORG-N    ORG-N   ORGN CONV     NH3     NH3     PHOS    DENIT
                          DECA     SETT  TO NH3 SRCE    DECA    SRCE    SRCE    RATE

COEFF-2        1  B1     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2        2  B2     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2        3  P1     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2        4  P2     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2        5  CH     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2        6  C1     0.010   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2        7  C2     0.010   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2        8  CW     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2        9  I1     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2       10  I2     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2       11  BP     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2       12  I3     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2       13  U1     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2       14  LF     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2       15  U2     0.020   0.000   0.000    0.200   0.000   0.000   0.000
COEFF-2       16  I4     0.020   0.000   0.000    0.200   0.000   0.000   0.000
ENDATA13

$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$

CARD TYPE    REACH  ID     SECCHI   ALGAE:   ALGAE   ALG CONV   ALGAE   ALGAE   MACRO   MACRO
                          DEPTH    CHL A    SETT    TO SOD     GROW    RESP    GROW    RESP  SHADING

ENDATA14

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

CARD TYPE    REACH  ID   COLIFORM    NCM     NCM   NCM CONV
                        DIE-OFF    DECAY    SETT    TO SOD

ENDATA15
```

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

CARD TYPE	REACH	ID	OUTFLOW	INFLOW	TEMP	SALIN	CM-I	CM-II	IN/DIST	OUT/DIST
INCR-1	1	B1	0.00000	0.00000	24.56	0.00	0.00	0.00	0.00000	0.00000
INCR-1	2	B2	0.00000	0.58470	24.56	0.00	0.00	0.00	0.06155	0.00000
INCR-1	3	P1	0.00000	0.00000	26.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	4	P2	0.00000	0.18880	26.00	0.00	0.00	0.00	0.04104	0.00000
INCR-1	5	CH	0.00000	0.00000	28.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	6	C1	0.00000	0.00150	26.00	0.00	0.00	0.00	0.00045	0.00000
INCR-1	7	C2	0.00000	0.00500	26.00	0.00	0.00	0.00	0.00119	0.00000
INCR-1	8	CW	0.00000	0.00000	28.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	9	I1	0.00000	0.00000	28.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	10	I2	0.00000	0.00000	28.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	11	BP	0.00000	0.00000	28.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	12	I3	0.00000	0.00000	28.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	13	U1	0.00000	0.00000	28.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	14	LF	0.00000	0.00000	28.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	15	U2	0.00000	0.00000	28.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	16	I4	0.00000	0.00000	28.00	0.00	0.00	0.00	0.00000	0.00000

ENDATA16

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

CARD TYPE	REACH	ID	DO	BOD	ORG-N	NH3-N	NO3-N	BOD#2
INCR-2	1	B1	4.08	9.30	1.50	0.00	0.00	0.00
INCR-2	2	B2	4.08	9.30	1.50	0.00	0.00	0.00
INCR-2	3	P1	4.00	38.00	2.80	0.00	1.00	0.00
INCR-2	4	P2	4.00	38.00	2.80	0.00	1.00	0.00
INCR-2	5	CH	4.00	0.00	0.00	0.00	0.00	0.00
INCR-2	6	C1	4.00	25.00	2.40	0.00	0.05	0.00
INCR-2	7	C2	4.00	25.00	2.40	0.00	0.05	0.00
INCR-2	8	CW	4.00	0.00	0.00	0.00	0.00	0.00
INCR-2	9	I1	4.00	0.00	0.00	0.00	0.00	0.00
INCR-2	10	I2	4.00	0.00	0.00	0.00	0.00	0.00
INCR-2	11	BP	4.00	0.00	0.00	0.00	0.00	0.00
INCR-2	12	I3	4.00	0.00	0.00	0.00	0.00	0.00
INCR-2	13	U1	4.00	0.00	0.00	0.00	0.00	0.00
INCR-2	14	LF	4.00	0.00	0.00	0.00	0.00	0.00
INCR-2	15	U2	4.00	0.00	0.00	0.00	0.00	0.00
INCR-2	16	I4	4.00	0.00	0.00	0.00	0.00	0.00

ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE	REACH	ID	PHOS	CHL A	COLI	NCM

ENDATA18

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

CARD TYPE	REACH	ID	BOD#1	ORG-N	COLI	NCM	DO	BOD#2
NONPOINT	1	B1	0.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	2	B2	0.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	3	P1	0.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	4	P2	0.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	5	CH	820.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	6	C1	0.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	7	C2	0.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	8	CW	1800.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	9	I1	900.00	140.00	0.00	0.00	0.00	0.00
NONPOINT	10	I2	1400.00	600.00	0.00	0.00	0.00	0.00
NONPOINT	11	BP	2500.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	12	I3	0.00	100.00	0.00	0.00	0.00	0.00
NONPOINT	13	U1	0.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	14	LF	0.00	10.00	0.00	0.00	0.00	0.00
NONPOINT	15	U2	0.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	16	I4	0.00	200.00	0.00	0.00	0.00	0.00

ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$

CARD TYPE	ELEMENT	NAME	UNIT	FLOW	FLOW	TEMP	SALIN	CM-I	CM-II
			m≥/s	cfs	deg C	ppt			
HDWTR-1	1	Bayou Cholpe #1	0	0.09485	3.349	24.60	0.00	0.000	0.000	0.00
HDWTR-1	126	Bayou Poydras #1	0	0.06597	2.329	27.00	0.00	0.000	0.000	0.00
HDWTR-1	272	Chamberlin Canal #1	0	0.00050	0.018	26.30	0.00	0.000	0.000	0.00
HDWTR-1	420	Intracoastal Waterwa	0	7.53000	265.890	29.80	0.00	0.000	0.000	0.00
HDWTR-1	710	Bayou Plaquemine	0	0.77000	27.189	29.10	0.00	0.000	0.000	0.00
HDWTR-1	879	Upper Grand River #1	0	3.94000	139.124	30.50	0.00	0.000	0.000	0.00
HDWTR-1	963	Lower Flat River	0	1.97000	69.562	31.50	0.00	0.000	0.000	0.00

ENDATA20

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

CARD TYPE	ELEMENT	NAME	DO	BOD#1	ORG-N	NH3-N	NO3-N	BOD#2
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
HDWTR-2	1	Bayou Cholpe #1	4.10	4.70	2.40	0.03	1.50	0.00
HDWTR-2	126	Bayou Poydras #1	0.30	30.67	1.54	0.20	0.00	0.00
HDWTR-2	272	Chamberlin Canal #1	2.10	9.28	1.18	0.10	0.07	0.00
HDWTR-2	420	Intracoastal Waterwa	7.40	2.20	1.10	0.03	1.70	0.00
HDWTR-2	710	Bayou Plaquemine	4.10	4.93	1.60	0.00	1.60	0.00
HDWTR-2	879	Upper Grand River #1	3.30	16.00	1.40	0.03	1.60	0.00
HDWTR-2	963	Lower Flat River	5.50	12.00	1.40	0.03	0.00	0.00

ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE	ELEMENT	NAME	PHOS	CHL A	COLI	NCM
			mg/L	mg/L	mg/L	mg/L

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME
JUNCTION	229	125	43.10	Bayou Cholpe confluence with Bayou Poydrus
JUNCTION	347	271	38.80	Chactaw Bayou confluence with Chamberlin Canal
JUNCTION	554	419	31.50	Intracoastal Waterway confluence with Chactaw Bayou
JUNCTION	829	709	15.90	Intracoastal Waterway confluence with Bayou Plaquemine
JUNCTION	1007	962	4.00	Upper Grand River confluence with Lower Flat River
JUNCTION	1047	878	10.90	Intracoastal Waterway confluence with Upper Grand River

ENDATA23

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

CARD TYPE	ELEMENT	RKILO	NAME	FLOW m≥/s	FLOW cfs	FLOW MGD	TEMP deg C	SALIN ppt	CM-I	CM-II
WSTLD-1	1	55.60	LA0003034	0.00000	0.00000	0.000	28.00	0.00	0.000	0.000
WSTLD-1	148	8.10	LAG540069	0.00013	0.00459	0.003	28.00	0.00	0.000	0.000
WSTLD-1	151	7.80	LAG531697	0.00003	0.00106	0.001	28.00	0.00	0.000	0.000
WSTLD-1	158	7.10	LAG540858	0.00028	0.00989	0.006	28.00	0.00	0.000	0.000
WSTLD-1	159	7.00	LAG531903	0.00000	0.00000	0.000	28.00	0.00	0.000	0.000
WSTLD-1	164	6.50	LAG531990	0.00007	0.00247	0.002	28.00	0.00	0.000	0.000
WSTLD-1	186	4.30	LAG540898	0.00175	0.06179	0.040	28.00	0.00	0.000	0.000
WSTLD-1	187	4.20	LAG540785	0.00053	0.01871	0.012	28.00	0.00	0.000	0.000
WSTLD-1	230	43.00	Stumpy Bayou	0.37939	13.39654	8.660	26.50	0.00	0.000	0.000
WSTLD-1	271	38.90	LAG530786	0.00022	0.00777	0.005	29.00	0.00	0.000	0.000
WSTLD-1	296	5.10	LA0121185	0.00000	0.00000	0.000	29.00	0.00	0.000	0.000
WSTLD-1	305	4.20	LAG540783	0.00215	0.07592	0.049	27.00	0.00	0.000	0.000
WSTLD-1	366	36.90	Unknown Trib #1	0.23500	8.29802	5.364	27.60	0.00	0.000	0.000
WSTLD-1	367	36.80	PS 120103	0.01882	0.66455	0.430	27.60	0.00	0.000	0.000
WSTLD-1	428	12.60	PS 120109#2	0.00105	0.03708	0.024	28.00	0.00	0.000	0.000
WSTLD-1	456	9.80	LAG560237	0.00031	0.01095	0.007	28.00	0.00	0.000	0.000
WSTLD-1	463	9.10	LA0068501	0.01314	0.46398	0.300	28.00	0.00	0.000	0.000
WSTLD-1	550	0.40	PS 120109#1	0.01936	0.68362	0.442	28.00	0.00	0.000	0.000
WSTLD-1	566	30.30	LAG531616	0.00001	0.00035	0.000	28.00	0.00	0.000	0.000
WSTLD-1	623	24.60	Unknown Trib #2	0.00010	0.00353	0.002	31.50	0.00	0.000	0.000
WSTLD-1	656	21.30	Unknown Trib #3	0.00010	0.00353	0.002	31.50	0.00	0.000	0.000
WSTLD-1	666	20.30	PS 120109#3	0.00455	0.16066	0.104	28.00	0.00	0.000	0.000
WSTLD-1	674	19.50	Unknown Trib #4	0.00010	0.00353	0.002	31.50	0.00	0.000	0.000
WSTLD-1	678	19.10	Bayou Grosse Tete #2	1.35901	47.98764	31.020	29.00	0.00	0.000	0.000

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WSTLD-1    703    16.60  LAG531362        0.00004   0.00141   0.001   28.00    0.00    0.000    0.000
WSTLD-1    739     9.00  LA0020648       0.06572   2.32062   1.500   28.00    0.00    0.000    0.000
WSTLD-1    779     5.00  LAG570359        0.00285   0.10064   0.065   28.00    0.00    0.000    0.000
WSTLD-1    782     4.70  LAG540102        0.00105   0.03708   0.024   28.00    0.00    0.000    0.000
WSTLD-1    785     4.40  LAG531065        0.00022   0.00777   0.005   28.00    0.00    0.000    0.000
WSTLD-1    796     3.30  LAG540784        0.00011   0.00388   0.003   28.00    0.00    0.000    0.000
WSTLD-1    907     9.60  Superior Canal   0.96829  34.19103  22.102   30.50    0.00    0.000    0.000
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                        % BOD                  %
CARD TYPE    ELEMENT   NAME                 DO     BOD     RMVL    ORG-N    NH3-N   NITRIF    NO3-N    BOD#2
                                   mg/L    mg/L          mg/L    mg/L          mg/L    mg/L

WSTLD-2      1    LA0003034          4.00    10.00    0.00    1.50    1.50    0.00    2.00    0.00
WSTLD-2    148    LAG540069          5.00    45.00    0.00    1.50    1.50    0.00    2.00    0.00
WSTLD-2    151    LAG531697          5.00    45.00    0.00    1.50    1.50    0.00    2.00    0.00
WSTLD-2    158    LAG540858          5.00    30.00    0.00    1.50    1.50    0.00    2.00    0.00
WSTLD-2    159    LAG531903          5.00    45.00    0.00    1.50    1.50    0.00    2.00    0.00
WSTLD-2    164    LAG531990          5.00    45.00    0.00    1.50    1.50    0.00    2.00    0.00
WSTLD-2    186    LAG540898          5.00    30.00    0.00    1.50    1.50    0.00    2.00    0.00
WSTLD-2    187    LAG540785          5.00    30.00    0.00    1.50    1.50    0.00    2.00    0.00
WSTLD-2    230    Stumpy Bayou       3.60     9.90    0.00    1.00    0.10    0.00    1.00    0.00
WSTLD-2    271    LAG530786          5.00    45.00    0.00    1.20    1.50    0.00    2.00    0.00
WSTLD-2    296    LA0121185          5.00    45.00    0.00    1.20    1.50    0.00    2.00    0.00
WSTLD-2    305    LAG540783          5.00    30.00    0.00    2.00    1.50    0.00    0.50    0.00
WSTLD-2    366    Unknown Trib #1    3.10     4.30    0.00    1.50    1.50    0.00    0.10    0.00
WSTLD-2    367    PS 120103          3.10    27.70    0.00    1.50    1.50    0.00    0.10    0.00
WSTLD-2    428    PS 120109#2        5.00    30.90    0.00    1.10    1.50    0.00   10.00    0.00
WSTLD-2    456    LAG560237          5.00    20.00    0.00    1.10    1.50    0.00    1.70    0.00
WSTLD-2    463    LA0068501          5.00    10.00    0.00    1.10    4.00    0.00   10.00    0.00
WSTLD-2    550    PS 120109#1        5.00    14.80    0.00    1.10    3.50    0.00   10.00    0.00
WSTLD-2    566    LAG531616          5.00    45.00    0.00    1.10    1.50    0.00   10.00    0.00
WSTLD-2    623    Unknown Trib #2    6.30     3.00    0.00    1.20    0.10    0.00    1.50    0.00
WSTLD-2    656    Unknown Trib #3    6.30     3.00    0.00    1.20    0.10    0.00    1.50    0.00
WSTLD-2    666    PS 120109#3        5.00    15.20    0.00    1.10    1.50    0.00   10.00    0.00
WSTLD-2    674    Unknown Trib #4    6.30     3.00    0.00    1.20    0.10    0.00    1.50    0.00
WSTLD-2    678    Bayou Grosse Tete #2   2.00    3.50    0.00    1.10    0.03    0.00    0.00    0.00
WSTLD-2    703    LAG531362          5.00    45.00    0.00    1.10    1.50    0.00    1.70    0.00
WSTLD-2    739    LA0020648          5.00    30.00    0.00    1.60    4.00    0.00    1.60    0.00
WSTLD-2    779    LAG570359          5.00    10.00    0.00    1.60    1.50    0.00    1.60    0.00
WSTLD-2    782    LAG540102          5.00    30.00    0.00    1.60    1.50    0.00    1.60    0.00
WSTLD-2    785    LAG531065          5.00    45.00    0.00    1.60    1.50    0.00    1.60    0.00
WSTLD-2    796    LAG540784          5.00    30.00    0.00    1.60    1.50    0.00    1.60    0.00
WSTLD-2    907    Superior Canal     5.50    10.00    0.00    1.40    0.10    0.00    0.00    0.00
ENDATA25

$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE    ELEMENT   NAME                 PHOS    CHL A    COLI     NCM
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                                mg/L     mg/L     mg/L     mg/L

ENDATA26

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

CARD TYPE    CONSTITUENT                CONCENTRATION

ENDATA27

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

CARD TYPE    ELEMENT   NAME              EQN     "A"     "B"     "H"

ENDATA28

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

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

ENDATA29

$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$
NUMBER OF PLOTS =  8
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH  3  4
NUMBER OF REACHES IN PLOT 2 =   2
PLOT RCH  1  2
NUMBER OF REACHES IN PLOT 3 =   2
PLOT RCH  5  8
NUMBER OF REACHES IN PLOT 4 =   2
PLOT RCH  6  7
NUMBER OF REACHES IN PLOT 5 =   4
PLOT RCH  9 10 12 16
NUMBER OF REACHES IN PLOT 6 =   1
PLOT RCH 11
NUMBER OF REACHES IN PLOT 7 =   2
PLOT RCH 13 15
NUMBER OF REACHES IN PLOT 8 =   1
PLOT RCH 14
ENDATA30

$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 bayou poydras.OVL            :Bayou Poydras
OVERLAY 2 bayou cholpe.OVL             :Bayou Cholpe
OVERLAY 3 choctaw bayou.OVL            :Choctaw Bayou
OVERLAY 4 chamberlin canal.OVL         :Chamberlin Canal
OVERLAY 5 icw.OVL                      :Intracoastal Waterway
OVERLAY 6 bayou plaquemine.OVL         :Bayou Plaquemine
OVERLAY 7 upper grand river.OVL        :Upper Grand River
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OVERLAY 8 lower flat river.OVL :Lower Flat River
ENDATA31

.....NO ERRORS DETECTED IN INPUT DATA
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 24 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING: NEGATIVE CONCENTRATIONS SET TO ZERO FOR Nitrate+Nitrite Nitrogen
.....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
.....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
.....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 13
.....GRAPHICS DATA FOR PLOT 4 WRITTEN TO UNIT 14
.....GRAPHICS DATA FOR PLOT 5 WRITTEN TO UNIT 15
.....GRAPHICS DATA FOR PLOT 6 WRITTEN TO UNIT 16
.....GRAPHICS DATA FOR PLOT 7 WRITTEN TO UNIT 17
.....GRAPHICS DATA FOR PLOT 8 WRITTEN TO UNIT 18
INTERMEDIATE REPORT

Dissolved Oxygen — LA-QUAL Model for Upper Terrebonne
mg/L — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	4.22	4.34	4.45	4.56	4.67	4.77	4.87	4.96	5.05	5.14
B1	1	11	5.22	5.30	5.38	5.45	5.52	5.59	5.65	5.71	5.77	5.83
B1	1	21	5.88	5.93	5.98	6.03	6.07	6.11	6.15	6.19	6.23	6.26
B2	2	31	6.03	5.84	5.68	5.54	5.43	5.33	5.24	5.17	5.10	5.04
B2	2	41	4.99	4.95	4.91	4.87	4.84	4.81	4.78	4.75	4.73	4.71
B2	2	51	4.69	4.67	4.66	4.64	4.63	4.62	4.61	4.59	4.58	4.57
B2	2	61	4.56	4.56	4.55	4.54	4.53	4.53	4.52	4.52	4.51	4.51
B2	2	71	4.51	4.51	4.51	4.51	4.51	4.51	4.52	4.52	4.52	4.53
B2	2	81	4.53	4.53	4.54	4.54	4.55	4.56	4.56	4.57	4.57	4.58
B2	2	91	4.59	4.59	4.60	4.61	4.62	4.62	4.63	4.64	4.64	4.65
B2	2	101	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.71	4.72	4.73
B2	2	111	4.74	4.74	4.75	4.76	4.77	4.77	4.78	4.79	4.80	4.81
B2	2	121	4.81	4.82	4.83	4.84	4.84					
CH	5	229	4.34	3.93	3.73	3.55	3.38	3.22	3.08	2.94	2.82	2.70
CH	5	239	2.60	2.50	2.42	2.34	2.27	2.22	2.17	2.13	2.10	2.08
CH	5	249	2.06	2.06	2.06	2.07	2.09	2.12	2.15	2.19	2.24	2.29
CH	5	259	2.35	2.42	2.49	2.57	2.66	2.75	2.85	2.96	3.07	3.19
CH	5	269	3.31	3.44	3.57							
CW	8	347	3.96	4.32	4.66	4.98	5.28	5.56	5.83	6.08	6.31	6.53
CW	8	357	6.73	6.92	7.09	7.25	7.40	7.54	7.66	7.77	7.87	7.23
CW	8	367	7.24	7.30	7.35	7.39	7.43	7.46	7.48	7.50	7.51	7.52
CW	8	377	7.52	7.52	7.51	7.49	7.47	7.44	7.41	7.37	7.33	7.29
CW	8	387	7.24	7.18	7.12	7.06	6.99	6.92	6.84	6.76	6.68	6.59
CW	8	397	6.50	6.40	6.31	6.20	6.10	5.99	5.88	5.76	5.64	5.52
CW	8	407	5.40	5.27	5.14	5.01	4.88	4.74	4.60	4.46	4.32	4.17
CW	8	417	4.02	3.87	3.72							
I2	10	554	5.08	5.05	5.02	4.99	4.97	4.94	4.91	4.89	4.86	4.84
I2	10	564	4.81	4.79	4.76	4.74	4.71	4.69	4.67	4.64	4.62	4.60

I2	10	574	4.58	4.55	4.53	4.51	4.49	4.47	4.45	4.43	4.40	4.38
I2	10	584	4.36	4.34	4.33	4.31	4.29	4.27	4.25	4.23	4.21	4.19
I2	10	594	4.18	4.16	4.14	4.12	4.11	4.09	4.07	4.06	4.04	4.02
I2	10	604	4.01	3.99	3.98	3.96	3.95	3.93	3.92	3.90	3.89	3.87
I2	10	614	3.86	3.85	3.83	3.82	3.80	3.79	3.78	3.76	3.75	3.74
I2	10	624	3.73	3.71	3.70	3.69	3.68	3.67	3.65	3.64	3.63	3.62
I2	10	634	3.61	3.60	3.59	3.58	3.56	3.55	3.54	3.53	3.52	3.51
I2	10	644	3.50	3.49	3.48	3.47	3.47	3.46	3.45	3.44	3.43	3.42
I2	10	654	3.41	3.40	3.39	3.39	3.38	3.37	3.36	3.35	3.34	3.34
I2	10	664	3.33	3.32	3.32	3.31	3.30	3.29	3.29	3.28	3.27	3.26
I2	10	674	3.26	3.25	3.24	3.24	3.07	3.07	3.06	3.06	3.05	3.05
I2	10	684	3.05	3.04	3.04	3.03	3.03	3.02	3.02	3.02	3.01	3.01
I2	10	694	3.00	3.00	3.00	2.99	2.99	2.99	2.98	2.98	2.98	2.97
I2	10	704	2.97	2.97	2.96	2.96	2.96	2.95				
I3	12	829	2.91	2.89	2.88	2.86	2.85	2.83	2.82	2.81	2.79	2.78
I3	12	839	2.77	2.76	2.74	2.73	2.72	2.71	2.70	2.69	2.68	2.67
I3	12	849	2.66	2.65	2.64	2.63	2.62	2.61	2.60	2.59	2.59	2.58
I3	12	859	2.57	2.56	2.56	2.55	2.54	2.54	2.53	2.53	2.52	2.51
I3	12	869	2.51	2.50	2.50	2.49	2.49	2.49	2.48	2.48	2.47	2.47
I4	16	1047	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.87
I4	16	1057	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.87
I4	16	1067	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.89	2.89	2.89
I4	16	1077	2.89	2.89	2.89	2.89	2.90	2.90	2.90	2.90	2.90	2.90
I4	16	1087	2.91	2.91	2.91	2.91	2.91	2.92	2.92	2.92	2.92	2.92
I4	16	1097	2.93	2.93	2.93	2.93	2.93	2.94	2.94	2.94	2.94	2.94
I4	16	1107	2.95	2.95	2.95	2.95	2.96	2.96	2.96	2.96	2.97	2.97
I4	16	1117	2.97	2.97	2.98	2.98	2.98	2.98	2.99	2.99	2.99	2.99
I4	16	1127	3.00	3.00	3.00	3.01	3.01	3.01	3.01	3.02	3.02	3.02
I4	16	1137	3.03	3.03	3.03	3.03	3.04	3.04	3.04	3.05	3.05	3.05
I4	16	1147	3.06	3.06	3.06	3.07	3.07	3.07	3.07	3.08	3.08	
P1	3	126	1.11	1.77	2.33	2.82	3.25	3.64	3.97	4.27	4.53	4.76
P1	3	136	4.97	5.15	5.31	5.45	5.57	5.68	5.77	5.86	5.93	6.00
P1	3	146	6.06	6.11	6.16	6.20	6.23	6.27	6.29	6.32	6.34	6.36
P1	3	156	6.38	6.40	6.41	6.42	6.43	6.44	6.45	6.46	6.47	6.48
P1	3	166	6.48	6.49	6.50	6.50	6.51	6.51	6.52	6.52	6.52	6.53
P1	3	176	6.53	6.53	6.54	6.54	6.54	6.54	6.55			
P2	4	183	6.10	5.74	5.44	5.18	4.97	4.79	4.65	4.52	4.42	4.34
P2	4	193	4.27	4.21	4.16	4.12	4.09	4.06	4.04	4.03	4.02	4.01
P2	4	203	4.00	4.00	4.00	4.00	4.01	4.01	4.02	4.02	4.03	4.04
P2	4	213	4.05	4.06	4.07	4.08	4.09	4.10	4.11	4.12	4.14	4.15
P2	4	223	4.16	4.17	4.18	4.19	4.20	4.21				
C1	6	272	4.65	5.16	5.25	5.32	5.38	5.44	5.49	5.53	5.57	5.61
C1	6	282	5.64	5.67	5.70	5.72	5.74	5.77	5.78	5.79	5.78	5.76
C1	6	292	5.74	5.73	5.71	5.69	5.67	5.65	5.63	5.62	5.60	5.58
C1	6	302	5.56	5.54	5.53							
C2	7	305	4.12	3.70	3.58	3.60	3.67	3.76	3.85	3.94	4.03	4.11
C2	7	315	4.18	4.26	4.32	4.39	4.45	4.51	4.56	4.62	4.67	4.72
C2	7	325	4.76	4.81	4.85	4.90	4.94	4.98	5.02	5.06	5.10	5.14
C2	7	335	5.18	5.22	5.26	5.29	5.33	5.37	5.41	5.44	5.48	5.51
C2	7	345	5.55	5.59								

I1	9	420	7.37	7.35	7.32	7.30	7.27	7.25	7.22	7.20	7.17	7.15
I1	9	430	7.12	7.10	7.07	7.05	7.03	7.01	6.98	6.96	6.94	6.92
I1	9	440	6.89	6.87	6.85	6.83	6.81	6.79	6.77	6.75	6.73	6.71
I1	9	450	6.69	6.67	6.65	6.63	6.61	6.59	6.57	6.55	6.54	6.52
I1	9	460	6.50	6.48	6.46	6.44	6.43	6.41	6.39	6.37	6.36	6.34
I1	9	470	6.32	6.31	6.29	6.27	6.26	6.24	6.23	6.21	6.20	6.18
I1	9	480	6.17	6.15	6.14	6.12	6.11	6.09	6.08	6.06	6.05	6.04
I1	9	490	6.02	6.01	6.00	5.98	5.97	5.96	5.94	5.93	5.92	5.91
I1	9	500	5.90	5.88	5.87	5.86	5.85	5.84	5.82	5.81	5.80	5.79
I1	9	510	5.78	5.77	5.76	5.75	5.74	5.73	5.72	5.71	5.69	5.68
I1	9	520	5.67	5.67	5.66	5.65	5.64	5.63	5.62	5.61	5.60	5.59
I1	9	530	5.58	5.57	5.56	5.55	5.55	5.54	5.53	5.52	5.51	5.50
I1	9	540	5.50	5.49	5.48	5.47	5.46	5.46	5.45	5.44	5.43	5.43
I1	9	550	5.42	5.41	5.40	5.39						
BP	11	710	4.36	4.60	4.83	5.05	5.26	5.45	5.64	5.81	5.98	6.13
BP	11	720	6.27	6.41	6.54	6.66	6.77	6.87	6.96	7.05	7.13	7.20
BP	11	730	7.27	7.33	7.39	7.44	7.48	7.52	7.56	7.59	7.61	7.40
BP	11	740	7.38	7.37	7.36	7.34	7.32	7.30	7.27	7.25	7.22	7.19
BP	11	750	7.16	7.13	7.09	7.06	7.02	6.99	6.95	6.91	6.86	6.82
BP	11	760	6.78	6.73	6.69	6.64	6.59	6.54	6.49	6.44	6.39	6.34
BP	11	770	6.28	6.23	6.18	6.12	6.06	6.01	5.95	5.89	5.83	5.77
BP	11	780	5.71	5.65	5.59	5.53	5.47	5.41	5.35	5.28	5.22	5.16
BP	11	790	5.10	5.03	4.97	4.90	4.84	4.78	4.71	4.65	4.58	4.51
BP	11	800	4.45	4.38	4.32	4.25	4.18	4.12	4.05	3.98	3.92	3.85
BP	11	810	3.78	3.72	3.65	3.58	3.51	3.45	3.38	3.31	3.24	3.18
BP	11	820	3.11	3.04	2.97	2.91	2.84	2.77	2.70	2.64	2.57	
U1	13	879	3.16	3.03	2.91	2.79	2.68	2.58	2.48	2.39	2.30	2.21
U1	13	889	2.14	2.06	1.99	1.94	1.89	1.86	1.83	1.80	1.78	1.77
U1	13	899	1.76	1.75	1.75	1.74	1.74	1.74	1.75	1.75	2.47	2.45
U1	13	909	2.44	2.42	2.41	2.40	2.39	2.38	2.37	2.37	2.36	2.36
U1	13	919	2.36	2.36	2.37	2.37	2.37	2.38	2.39	2.39	2.40	2.41
U1	13	929	2.43	2.44	2.45	2.47	2.48	2.50	2.51	2.53	2.55	2.57
U1	13	939	2.59	2.61	2.63	2.65	2.67	2.70	2.72	2.74	2.77	2.79
U1	13	949	2.82	2.84	2.87	2.90	2.92	2.95	2.98	3.01	3.04	3.07
U1	13	959	3.09	3.12	3.15	3.18						
U2	15	1007	3.40	3.42	3.44	3.45	3.47	3.48	3.50	3.51	3.52	3.53
U2	15	1017	3.54	3.55	3.56	3.57	3.58	3.58	3.59	3.59	3.60	3.60
U2	15	1027	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.59	3.59	3.59
U2	15	1037	3.58	3.57	3.57	3.56	3.55	3.54	3.53	3.52	3.51	3.50
LF	14	963	5.32	5.15	4.99	4.84	4.70	4.57	4.45	4.33	4.23	4.13
LF	14	973	4.05	3.97	3.89	3.82	3.76	3.71	3.66	3.62	3.58	3.55
LF	14	983	3.52	3.50	3.48	3.47	3.46	3.45	3.45	3.45	3.46	3.47
LF	14	993	3.48	3.49	3.51	3.53	3.56	3.58	3.61	3.64	3.68	3.71
LF	14	1003	3.75	3.79	3.83	3.87						

INTERMEDIATE REPORT

Effective BOD — LA-QUAL Model for Upper Terrebonne

mg/L — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	4.70	4.70	4.69	4.69	4.69	4.69	4.68	4.68	4.68	4.68

B1	1	11	4.67	4.67	4.67	4.67	4.66	4.66	4.66	4.66	4.65	4.65
B1	1	21	4.65	4.65	4.64	4.64	4.64	4.63	4.63	4.63	4.63	4.62
B2	2	31	4.80	4.95	5.09	5.21	5.31	5.40	5.49	5.56	5.63	5.69
B2	2	41	5.75	5.80	5.85	5.89	5.93	5.97	6.00	6.03	6.06	6.09
B2	2	51	6.12	6.14	6.16	6.19	6.21	6.23	6.24	6.26	6.28	6.29
B2	2	61	6.31	6.32	6.33	6.35	6.36	6.37	6.38	6.39	6.40	6.41
B2	2	71	6.42	6.43	6.44	6.44	6.45	6.46	6.47	6.47	6.48	6.49
B2	2	81	6.49	6.50	6.51	6.51	6.52	6.52	6.53	6.53	6.54	6.54
B2	2	91	6.55	6.55	6.55	6.56	6.56	6.57	6.57	6.57	6.58	6.58
B2	2	101	6.58	6.59	6.59	6.59	6.60	6.60	6.60	6.60	6.61	6.61
B2	2	111	6.61	6.61	6.62	6.62	6.62	6.62	6.63	6.63	6.63	6.63
B2	2	121	6.63	6.64	6.64	6.64	6.64					
CH	5	229	13.25	12.30	12.32	12.34	12.36	12.38	12.39	12.41	12.43	12.44
CH	5	239	12.46	12.47	12.49	12.50	12.51	12.52	12.54	12.55	12.56	12.57
CH	5	249	12.58	12.59	12.60	12.60	12.61	12.62	12.62	12.63	12.64	12.64
CH	5	259	12.65	12.65	12.66	12.66	12.66	12.66	12.67	12.67	12.67	12.67
CH	5	269	12.67	12.67	12.68							
CW	8	347	12.58	12.53	12.48	12.44	12.39	12.34	12.30	12.25	12.21	12.17
CW	8	357	12.13	12.09	12.05	12.01	11.98	11.94	11.90	11.87	11.84	10.69
CW	8	367	10.89	10.88	10.86	10.85	10.84	10.83	10.83	10.82	10.81	10.80
CW	8	377	10.79	10.78	10.77	10.77	10.76	10.75	10.75	10.74	10.73	10.73
CW	8	387	10.72	10.71	10.71	10.70	10.70	10.69	10.69	10.68	10.68	10.68
CW	8	397	10.67	10.67	10.66	10.66	10.66	10.65	10.65	10.65	10.64	10.64
CW	8	407	10.64	10.64	10.63	10.63	10.63	10.63	10.63	10.63	10.62	10.62
CW	8	417	10.62	10.62	10.62							
I2	10	554	3.28	3.27	3.26	3.26	3.25	3.24	3.23	3.22	3.22	3.21
I2	10	564	3.20	3.19	3.18	3.18	3.17	3.16	3.15	3.15	3.14	3.13
I2	10	574	3.12	3.12	3.11	3.10	3.09	3.09	3.08	3.07	3.07	3.06
I2	10	584	3.05	3.05	3.04	3.03	3.03	3.02	3.01	3.01	3.00	2.99
I2	10	594	2.99	2.98	2.97	2.97	2.96	2.95	2.95	2.94	2.94	2.93
I2	10	604	2.92	2.92	2.91	2.91	2.90	2.89	2.89	2.88	2.88	2.87
I2	10	614	2.87	2.86	2.85	2.85	2.84	2.84	2.83	2.83	2.82	2.82
I2	10	624	2.81	2.81	2.80	2.80	2.79	2.79	2.78	2.78	2.77	2.77
I2	10	634	2.76	2.76	2.75	2.75	2.74	2.74	2.73	2.73	2.72	2.72
I2	10	644	2.71	2.71	2.70	2.70	2.70	2.69	2.69	2.68	2.68	2.67
I2	10	654	2.67	2.66	2.66	2.66	2.65	2.65	2.64	2.64	2.64	2.63
I2	10	664	2.63	2.62	2.63	2.62	2.62	2.61	2.61	2.61	2.60	2.60
I2	10	674	2.60	2.59	2.59	2.58	2.70	2.70	2.69	2.69	2.68	2.68
I2	10	684	2.68	2.67	2.67	2.67	2.66	2.66	2.66	2.65	2.65	2.65
I2	10	694	2.64	2.64	2.64	2.63	2.63	2.63	2.62	2.62	2.62	2.61
I2	10	704	2.61	2.61	2.60	2.60	2.60	2.59				
I3	12	829	4.26	4.23	4.19	4.16	4.12	4.09	4.06	4.03	3.99	3.96
I3	12	839	3.93	3.90	3.87	3.84	3.81	3.78	3.75	3.72	3.69	3.66
I3	12	849	3.63	3.60	3.57	3.54	3.51	3.48	3.45	3.43	3.40	3.37
I3	12	859	3.34	3.32	3.29	3.26	3.24	3.21	3.18	3.16	3.13	3.11
I3	12	869	3.08	3.06	3.03	3.01	2.98	2.96	2.93	2.91	2.88	2.86
I4	16	1047	3.48	3.47	3.45	3.44	3.43	3.42	3.41	3.39	3.38	3.37
I4	16	1057	3.36	3.35	3.33	3.32	3.31	3.30	3.29	3.28	3.27	3.25
I4	16	1067	3.24	3.23	3.22	3.21	3.20	3.19	3.17	3.16	3.15	3.14
I4	16	1077	3.13	3.12	3.11	3.10	3.09	3.07	3.06	3.05	3.04	3.03

I4	16	1087	3.02	3.01	3.00	2.99	2.98	2.97	2.96	2.95	2.94	2.93
I4	16	1097	2.92	2.91	2.90	2.89	2.88	2.87	2.86	2.85	2.84	2.83
I4	16	1107	2.82	2.81	2.80	2.79	2.78	2.77	2.76	2.75	2.74	2.73
I4	16	1117	2.72	2.71	2.70	2.69	2.68	2.67	2.66	2.65	2.64	2.63
I4	16	1127	2.62	2.61	2.61	2.60	2.59	2.58	2.57	2.56	2.55	2.54
I4	16	1137	2.53	2.52	2.51	2.51	2.50	2.49	2.48	2.47	2.46	2.45
I4	16	1147	2.44	2.44	2.43	2.42	2.41	2.40	2.39	2.39	2.38	
P1	3	126	30.62	30.54	30.45	30.37	30.28	30.19	30.10	30.02	29.93	29.84
P1	3	136	29.76	29.67	29.58	29.50	29.41	29.33	29.24	29.16	29.08	28.99
P1	3	146	28.91	28.82	28.77	28.69	28.61	28.53	28.45	28.37	28.29	28.20
P1	3	156	28.12	28.04	27.97	27.89	27.81	27.73	27.65	27.57	27.51	27.43
P1	3	166	27.35	27.27	27.19	27.12	27.04	26.96	26.88	26.81	26.73	26.65
P1	3	176	26.58	26.50	26.42	26.35	26.27	26.20	26.12			
P2	4	183	26.52	26.88	27.19	27.52	27.78	28.00	28.19	28.37	28.53	28.68
P2	4	193	28.82	28.95	29.07	29.17	29.27	29.37	29.46	29.54	29.61	29.68
P2	4	203	29.75	29.81	29.87	29.93	29.98	30.03	30.08	30.12	30.16	30.20
P2	4	213	30.24	30.28	30.31	30.34	30.37	30.40	30.43	30.45	30.48	30.50
P2	4	223	30.53	30.55	30.57	30.59	30.61	30.63				
C1	6	272	9.86	10.32	10.68	10.98	11.23	11.43	11.60	11.74	11.86	11.96
C1	6	282	12.05	12.13	12.19	12.25	12.29	12.34	12.37	12.40	12.43	12.45
C1	6	292	12.47	12.49	12.50	12.51	12.52	12.53	12.53	12.54	12.54	12.54
C1	6	302	12.54	12.54	12.54							
C2	7	305	20.07	18.74	17.57	16.53	15.60	14.78	14.05	13.39	12.80	12.27
C2	7	315	11.79	11.35	10.96	10.60	10.28	9.98	9.71	9.46	9.24	9.03
C2	7	325	8.84	8.66	8.49	8.34	8.20	8.07	7.95	7.84	7.74	7.64
C2	7	335	7.55	7.46	7.38	7.31	7.23	7.17	7.10	7.05	6.99	6.94
C2	7	345	6.89	6.84								
I1	9	420	2.19	2.19	2.18	2.18	2.17	2.17	2.16	2.16	2.16	2.15
I1	9	430	2.15	2.14	2.14	2.13	2.13	2.12	2.12	2.11	2.11	2.10
I1	9	440	2.10	2.09	2.09	2.08	2.08	2.07	2.07	2.07	2.06	2.06
I1	9	450	2.05	2.05	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.01
I1	9	460	2.01	2.01	2.00	2.01	2.01	2.00	2.00	2.00	1.99	1.99
I1	9	470	1.98	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.95	1.95
I1	9	480	1.94	1.94	1.94	1.93	1.93	1.93	1.92	1.92	1.92	1.91
I1	9	490	1.91	1.91	1.90	1.90	1.89	1.89	1.89	1.88	1.88	1.88
I1	9	500	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.85	1.85	1.85
I1	9	510	1.84	1.84	1.84	1.83	1.83	1.83	1.82	1.82	1.82	1.82
I1	9	520	1.81	1.81	1.81	1.80	1.80	1.80	1.80	1.79	1.79	1.79
I1	9	530	1.79	1.78	1.78	1.78	1.77	1.77	1.77	1.77	1.76	1.76
I1	9	540	1.76	1.76	1.75	1.75	1.75	1.75	1.74	1.74	1.74	1.74
I1	9	550	1.77	1.76	1.76	1.76						
BP	11	710	5.20	5.47	5.74	6.01	6.27	6.53	6.79	7.05	7.30	7.56
BP	11	720	7.81	8.06	8.30	8.55	8.79	9.03	9.27	9.51	9.74	9.98
BP	11	730	10.21	10.44	10.66	10.89	11.11	11.33	11.55	11.77	11.99	13.59
BP	11	740	13.78	13.96	14.14	14.33	14.51	14.68	14.86	15.04	15.21	15.38
BP	11	750	15.56	15.73	15.90	16.06	16.23	16.40	16.56	16.72	16.88	17.04
BP	11	760	17.20	17.36	17.52	17.67	17.83	17.98	18.13	18.28	18.43	18.58
BP	11	770	18.73	18.87	19.02	19.16	19.31	19.45	19.59	19.73	19.87	19.97
BP	11	780	20.11	20.24	20.39	20.52	20.65	20.79	20.92	21.05	21.17	21.30
BP	11	790	21.43	21.55	21.68	21.80	21.92	22.04	22.16	22.28	22.40	22.52

BP	11	800	22.63	22.75	22.86	22.98	23.09	23.20	23.31	23.42	23.53	23.64
BP	11	810	23.75	23.85	23.96	24.07	24.17	24.27	24.38	24.48	24.58	24.68
BP	11	820	24.78	24.88	24.98	25.07	25.17	25.27	25.36	25.46	25.55	
U1	13	879	15.77	15.55	15.33	15.11	14.89	14.68	14.47	14.27	14.06	13.86
U1	13	889	13.67	13.47	13.28	13.10	12.92	12.75	12.59	12.43	12.27	12.12
U1	13	899	11.97	11.82	11.67	11.53	11.39	11.24	11.11	10.97	10.65	10.53
U1	13	909	10.41	10.30	10.18	10.06	9.95	9.84	9.73	9.62	9.51	9.40
U1	13	919	9.29	9.19	9.08	8.98	8.88	8.78	8.68	8.58	8.49	8.39
U1	13	929	8.30	8.20	8.11	8.02	7.93	7.84	7.75	7.67	7.58	7.49
U1	13	939	7.41	7.33	7.25	7.16	7.08	7.00	6.93	6.85	6.77	6.70
U1	13	949	6.62	6.55	6.47	6.40	6.33	6.26	6.19	6.12	6.05	5.99
U1	13	959	5.92	5.85	5.79	5.72						
U2	15	1007	5.85	5.81	5.77	5.74	5.70	5.66	5.62	5.59	5.55	5.51
U2	15	1017	5.48	5.44	5.41	5.37	5.33	5.30	5.26	5.23	5.20	5.16
U2	15	1027	5.13	5.10	5.06	5.03	5.00	4.96	4.93	4.90	4.87	4.84
U2	15	1037	4.80	4.77	4.74	4.71	4.68	4.65	4.62	4.59	4.56	4.53
LF	14	963	11.83	11.66	11.49	11.32	11.16	11.00	10.84	10.68	10.53	10.38
LF	14	973	10.23	10.08	9.93	9.79	9.65	9.51	9.37	9.23	9.10	8.97
LF	14	983	8.84	8.71	8.58	8.46	8.34	8.22	8.10	7.98	7.86	7.75
LF	14	993	7.64	7.52	7.41	7.31	7.20	7.10	6.99	6.89	6.79	6.69
LF	14	1003	6.59	6.50	6.40	6.31						

INTERMEDIATE REPORT

Biochemical Oxygen Demand — LA-QUAL Model for Upper Terrebonne

mg/L — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	4.70	4.70	4.69	4.69	4.69	4.69	4.68	4.68	4.68	4.68
B1	1	11	4.67	4.67	4.67	4.67	4.66	4.66	4.66	4.66	4.65	4.65
B1	1	21	4.65	4.65	4.64	4.64	4.64	4.63	4.63	4.63	4.63	4.62
B2	2	31	4.80	4.95	5.09	5.21	5.31	5.40	5.49	5.56	5.63	5.69
B2	2	41	5.75	5.80	5.85	5.89	5.93	5.97	6.00	6.03	6.06	6.09
B2	2	51	6.12	6.14	6.16	6.19	6.21	6.23	6.24	6.26	6.28	6.29
B2	2	61	6.31	6.32	6.33	6.35	6.36	6.37	6.38	6.39	6.40	6.41
B2	2	71	6.42	6.43	6.44	6.44	6.45	6.46	6.47	6.47	6.48	6.49
B2	2	81	6.49	6.50	6.51	6.51	6.52	6.52	6.53	6.53	6.54	6.54
B2	2	91	6.55	6.55	6.55	6.56	6.56	6.57	6.57	6.57	6.58	6.58
B2	2	101	6.58	6.59	6.59	6.59	6.60	6.60	6.60	6.60	6.61	6.61
B2	2	111	6.61	6.61	6.62	6.62	6.62	6.62	6.63	6.63	6.63	6.63
B2	2	121	6.63	6.64	6.64	6.64	6.64					
CH	5	229	13.25	12.30	12.32	12.34	12.36	12.38	12.39	12.41	12.43	12.44
CH	5	239	12.46	12.47	12.49	12.50	12.51	12.52	12.54	12.55	12.56	12.57
CH	5	249	12.58	12.59	12.60	12.60	12.61	12.62	12.62	12.63	12.64	12.64
CH	5	259	12.65	12.65	12.66	12.66	12.66	12.66	12.67	12.67	12.67	12.67
CH	5	269	12.67	12.67	12.68							
CW	8	347	12.58	12.53	12.48	12.44	12.39	12.34	12.30	12.25	12.21	12.17
CW	8	357	12.13	12.09	12.05	12.01	11.98	11.94	11.90	11.87	11.84	10.69
CW	8	367	10.89	10.88	10.86	10.85	10.84	10.83	10.83	10.82	10.81	10.80
CW	8	377	10.79	10.78	10.77	10.77	10.76	10.75	10.75	10.74	10.73	10.73
CW	8	387	10.72	10.71	10.71	10.70	10.70	10.69	10.69	10.68	10.68	10.68
CW	8	397	10.67	10.67	10.66	10.66	10.66	10.65	10.65	10.65	10.64	10.64

CW	8	407	10.64	10.64	10.63	10.63	10.63	10.63	10.63	10.63	10.62	10.62
CW	8	417	10.62	10.62	10.62							
I2	10	554	3.28	3.27	3.26	3.26	3.25	3.24	3.23	3.22	3.22	3.21
I2	10	564	3.20	3.19	3.18	3.18	3.17	3.16	3.15	3.15	3.14	3.13
I2	10	574	3.12	3.12	3.11	3.10	3.09	3.09	3.08	3.07	3.07	3.06
I2	10	584	3.05	3.05	3.04	3.03	3.03	3.02	3.01	3.01	3.00	2.99
I2	10	594	2.99	2.98	2.97	2.97	2.96	2.95	2.95	2.94	2.94	2.93
I2	10	604	2.92	2.92	2.91	2.91	2.90	2.89	2.89	2.88	2.88	2.87
I2	10	614	2.87	2.86	2.85	2.85	2.84	2.84	2.83	2.83	2.82	2.82
I2	10	624	2.81	2.81	2.80	2.80	2.79	2.79	2.78	2.78	2.77	2.77
I2	10	634	2.76	2.76	2.75	2.75	2.74	2.74	2.73	2.73	2.72	2.72
I2	10	644	2.71	2.71	2.70	2.70	2.70	2.69	2.69	2.68	2.68	2.67
I2	10	654	2.67	2.66	2.66	2.66	2.65	2.65	2.64	2.64	2.64	2.63
I2	10	664	2.63	2.62	2.63	2.62	2.62	2.61	2.61	2.61	2.60	2.60
I2	10	674	2.60	2.59	2.59	2.58	2.70	2.70	2.69	2.69	2.68	2.68
I2	10	684	2.68	2.67	2.67	2.67	2.66	2.66	2.66	2.65	2.65	2.65
I2	10	694	2.64	2.64	2.64	2.63	2.63	2.63	2.62	2.62	2.62	2.61
I2	10	704	2.61	2.61	2.60	2.60	2.60	2.59				
I3	12	829	4.26	4.23	4.19	4.16	4.12	4.09	4.06	4.03	3.99	3.96
I3	12	839	3.93	3.90	3.87	3.84	3.81	3.78	3.75	3.72	3.69	3.66
I3	12	849	3.63	3.60	3.57	3.54	3.51	3.48	3.45	3.43	3.40	3.37
I3	12	859	3.34	3.32	3.29	3.26	3.24	3.21	3.18	3.16	3.13	3.11
I3	12	869	3.08	3.06	3.03	3.01	2.98	2.96	2.93	2.91	2.88	2.86
I4	16	1047	3.48	3.47	3.45	3.44	3.43	3.42	3.41	3.39	3.38	3.37
I4	16	1057	3.36	3.35	3.33	3.32	3.31	3.30	3.29	3.28	3.27	3.25
I4	16	1067	3.24	3.23	3.22	3.21	3.20	3.19	3.17	3.16	3.15	3.14
I4	16	1077	3.13	3.12	3.11	3.10	3.09	3.07	3.06	3.05	3.04	3.03
I4	16	1087	3.02	3.01	3.00	2.99	2.98	2.97	2.96	2.95	2.94	2.93
I4	16	1097	2.92	2.91	2.90	2.89	2.88	2.87	2.86	2.85	2.84	2.83
I4	16	1107	2.82	2.81	2.80	2.79	2.78	2.77	2.76	2.75	2.74	2.73
I4	16	1117	2.72	2.71	2.70	2.69	2.68	2.67	2.66	2.65	2.64	2.63
I4	16	1127	2.62	2.61	2.61	2.60	2.59	2.58	2.57	2.56	2.55	2.54
I4	16	1137	2.53	2.52	2.51	2.51	2.50	2.49	2.48	2.47	2.46	2.45
I4	16	1147	2.44	2.44	2.43	2.42	2.41	2.40	2.39	2.39	2.38	
P1	3	126	30.62	30.54	30.45	30.37	30.28	30.19	30.10	30.02	29.93	29.84
P1	3	136	29.76	29.67	29.58	29.50	29.41	29.33	29.24	29.16	29.08	28.99
P1	3	146	28.91	28.82	28.77	28.69	28.61	28.53	28.45	28.37	28.29	28.20
P1	3	156	28.12	28.04	27.97	27.89	27.81	27.73	27.65	27.57	27.51	27.43
P1	3	166	27.35	27.27	27.19	27.12	27.04	26.96	26.88	26.81	26.73	26.65
P1	3	176	26.58	26.50	26.42	26.35	26.27	26.20	26.12			
P2	4	183	26.52	26.88	27.19	27.52	27.78	28.00	28.19	28.37	28.53	28.68
P2	4	193	28.82	28.95	29.07	29.17	29.27	29.37	29.46	29.54	29.61	29.68
P2	4	203	29.75	29.81	29.87	29.93	29.98	30.03	30.08	30.12	30.16	30.20
P2	4	213	30.24	30.28	30.31	30.34	30.37	30.40	30.43	30.45	30.48	30.50
P2	4	223	30.53	30.55	30.57	30.59	30.61	30.63				
C1	6	272	9.86	10.32	10.68	10.98	11.23	11.43	11.60	11.74	11.86	11.96
C1	6	282	12.05	12.13	12.19	12.25	12.29	12.34	12.37	12.40	12.43	12.45
C1	6	292	12.47	12.49	12.50	12.51	12.52	12.53	12.53	12.54	12.54	12.54
C1	6	302	12.54	12.54	12.54							
C2	7	305	20.07	18.74	17.57	16.53	15.60	14.78	14.05	13.39	12.80	12.27

C2	7	315	11.79	11.35	10.96	10.60	10.28	9.98	9.71	9.46	9.24	9.03
C2	7	325	8.84	8.66	8.49	8.34	8.20	8.07	7.95	7.84	7.74	7.64
C2	7	335	7.55	7.46	7.38	7.31	7.23	7.17	7.10	7.05	6.99	6.94
C2	7	345	6.89	6.84								
I1	9	420	2.19	2.19	2.18	2.18	2.17	2.17	2.16	2.16	2.16	2.15
I1	9	430	2.15	2.14	2.14	2.13	2.13	2.12	2.12	2.11	2.11	2.10
I1	9	440	2.10	2.09	2.09	2.08	2.08	2.07	2.07	2.07	2.06	2.06
I1	9	450	2.05	2.05	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.01
I1	9	460	2.01	2.01	2.00	2.01	2.01	2.00	2.00	2.00	1.99	1.99
I1	9	470	1.98	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.95	1.95
I1	9	480	1.94	1.94	1.94	1.93	1.93	1.93	1.92	1.92	1.92	1.91
I1	9	490	1.91	1.91	1.90	1.90	1.89	1.89	1.89	1.88	1.88	1.88
I1	9	500	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.85	1.85	1.85
I1	9	510	1.84	1.84	1.84	1.83	1.83	1.83	1.82	1.82	1.82	1.82
I1	9	520	1.81	1.81	1.81	1.80	1.80	1.80	1.80	1.79	1.79	1.79
I1	9	530	1.79	1.78	1.78	1.78	1.77	1.77	1.77	1.77	1.76	1.76
I1	9	540	1.76	1.76	1.75	1.75	1.75	1.75	1.74	1.74	1.74	1.74
I1	9	550	1.77	1.76	1.76	1.76						
BP	11	710	5.20	5.47	5.74	6.01	6.27	6.53	6.79	7.05	7.30	7.56
BP	11	720	7.81	8.06	8.30	8.55	8.79	9.03	9.27	9.51	9.74	9.98
BP	11	730	10.21	10.44	10.66	10.89	11.11	11.33	11.55	11.77	11.99	13.59
BP	11	740	13.78	13.96	14.14	14.33	14.51	14.68	14.86	15.04	15.21	15.38
BP	11	750	15.56	15.73	15.90	16.06	16.23	16.40	16.56	16.72	16.88	17.04
BP	11	760	17.20	17.36	17.52	17.67	17.83	17.98	18.13	18.28	18.43	18.58
BP	11	770	18.73	18.87	19.02	19.16	19.31	19.45	19.59	19.73	19.87	19.97
BP	11	780	20.11	20.24	20.39	20.52	20.65	20.79	20.92	21.05	21.17	21.30
BP	11	790	21.43	21.55	21.68	21.80	21.92	22.04	22.16	22.28	22.40	22.52
BP	11	800	22.63	22.75	22.86	22.98	23.09	23.20	23.31	23.42	23.53	23.64
BP	11	810	23.75	23.85	23.96	24.07	24.17	24.27	24.38	24.48	24.58	24.68
BP	11	820	24.78	24.88	24.98	25.07	25.17	25.27	25.36	25.46	25.55	
U1	13	879	15.77	15.55	15.33	15.11	14.89	14.68	14.47	14.27	14.06	13.86
U1	13	889	13.67	13.47	13.28	13.10	12.92	12.75	12.59	12.43	12.27	12.12
U1	13	899	11.97	11.82	11.67	11.53	11.39	11.24	11.11	10.97	10.65	10.53
U1	13	909	10.41	10.30	10.18	10.06	9.95	9.84	9.73	9.62	9.51	9.40
U1	13	919	9.29	9.19	9.08	8.98	8.88	8.78	8.68	8.58	8.49	8.39
U1	13	929	8.30	8.20	8.11	8.02	7.93	7.84	7.75	7.67	7.58	7.49
U1	13	939	7.41	7.33	7.25	7.16	7.08	7.00	6.93	6.85	6.77	6.70
U1	13	949	6.62	6.55	6.47	6.40	6.33	6.26	6.19	6.12	6.05	5.99
U1	13	959	5.92	5.85	5.79	5.72						
U2	15	1007	5.85	5.81	5.77	5.74	5.70	5.66	5.62	5.59	5.55	5.51
U2	15	1017	5.48	5.44	5.41	5.37	5.33	5.30	5.26	5.23	5.20	5.16
U2	15	1027	5.13	5.10	5.06	5.03	5.00	4.96	4.93	4.90	4.87	4.84
U2	15	1037	4.80	4.77	4.74	4.71	4.68	4.65	4.62	4.59	4.56	4.53
LF	14	963	11.83	11.66	11.49	11.32	11.16	11.00	10.84	10.68	10.53	10.38
LF	14	973	10.23	10.08	9.93	9.79	9.65	9.51	9.37	9.23	9.10	8.97
LF	14	983	8.84	8.71	8.58	8.46	8.34	8.22	8.10	7.98	7.86	7.75
LF	14	993	7.64	7.52	7.41	7.31	7.20	7.10	6.99	6.89	6.79	6.69
LF	14	1003	6.59	6.50	6.40	6.31						

mg/L — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
B1	1	11	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
B1	1	21	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.39
B2	2	31	2.33	2.28	2.23	2.19	2.15	2.12	2.08	2.06	2.03	2.00
B2	2	41	1.98	1.96	1.94	1.92	1.91	1.89	1.88	1.86	1.85	1.84
B2	2	51	1.83	1.82	1.81	1.80	1.79	1.78	1.77	1.76	1.75	1.75
B2	2	61	1.74	1.73	1.73	1.72	1.71	1.71	1.70	1.70	1.69	1.69
B2	2	71	1.68	1.68	1.67	1.67	1.67	1.66	1.66	1.65	1.65	1.65
B2	2	81	1.64	1.64	1.64	1.63	1.63	1.63	1.63	1.62	1.62	1.62
B2	2	91	1.62	1.61	1.61	1.61	1.61	1.60	1.60	1.60	1.60	1.60
B2	2	101	1.59	1.59	1.59	1.59	1.59	1.58	1.58	1.58	1.58	1.58
B2	2	111	1.58	1.58	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.56
B2	2	121	1.56	1.56	1.56	1.56	1.56					
CH	5	229	1.79	1.56	1.55	1.55	1.55	1.55	1.54	1.54	1.54	1.54
CH	5	239	1.53	1.53	1.53	1.52	1.52	1.52	1.52	1.51	1.51	1.51
CH	5	249	1.51	1.50	1.50	1.50	1.50	1.49	1.49	1.49	1.49	1.48
CH	5	259	1.48	1.48	1.47	1.47	1.47	1.47	1.46	1.46	1.46	1.46
CH	5	269	1.45	1.45	1.45							
CW	8	347	1.45	1.44	1.44	1.44	1.43	1.43	1.42	1.42	1.42	1.41
CW	8	357	1.41	1.40	1.40	1.40	1.39	1.39	1.38	1.38	1.38	1.39
CW	8	367	1.39	1.39	1.38	1.38	1.38	1.37	1.37	1.37	1.36	1.36
CW	8	377	1.36	1.35	1.35	1.35	1.34	1.34	1.34	1.33	1.33	1.33
CW	8	387	1.32	1.32	1.32	1.31	1.31	1.31	1.31	1.30	1.30	1.30
CW	8	397	1.29	1.29	1.29	1.28	1.28	1.28	1.27	1.27	1.27	1.27
CW	8	407	1.26	1.26	1.26	1.25	1.25	1.25	1.24	1.24	1.24	1.24
CW	8	417	1.23	1.23	1.23							
I2	10	554	1.20	1.20	1.20	1.21	1.21	1.22	1.22	1.22	1.23	1.23
I2	10	564	1.24	1.24	1.24	1.25	1.25	1.26	1.26	1.26	1.27	1.27
I2	10	574	1.28	1.28	1.28	1.29	1.29	1.29	1.30	1.30	1.31	1.31
I2	10	584	1.31	1.32	1.32	1.33	1.33	1.33	1.34	1.34	1.35	1.35
I2	10	594	1.35	1.36	1.36	1.37	1.37	1.37	1.38	1.38	1.39	1.39
I2	10	604	1.39	1.40	1.40	1.40	1.41	1.41	1.42	1.42	1.42	1.43
I2	10	614	1.43	1.44	1.44	1.44	1.45	1.45	1.45	1.46	1.46	1.47
I2	10	624	1.47	1.47	1.48	1.48	1.49	1.49	1.49	1.50	1.50	1.50
I2	10	634	1.51	1.51	1.52	1.52	1.52	1.53	1.53	1.53	1.54	1.54
I2	10	644	1.55	1.55	1.55	1.56	1.56	1.57	1.57	1.57	1.58	1.58
I2	10	654	1.58	1.59	1.59	1.60	1.60	1.60	1.61	1.61	1.61	1.62
I2	10	664	1.62	1.63	1.63	1.63	1.64	1.64	1.64	1.65	1.65	1.65
I2	10	674	1.66	1.66	1.67	1.67	1.60	1.60	1.61	1.61	1.61	1.62
I2	10	684	1.62	1.62	1.63	1.63	1.63	1.63	1.64	1.64	1.64	1.65
I2	10	694	1.65	1.65	1.66	1.66	1.66	1.67	1.67	1.67	1.68	1.68
I2	10	704	1.68	1.69	1.69	1.69	1.70	1.70				
I3	12	829	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.69	1.69	1.69
I3	12	839	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.70	1.70	1.70
I3	12	849	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.71	1.71
I3	12	859	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.72	1.72
I3	12	869	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.73

I4	16	1047	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.59	1.59	1.59
I4	16	1057	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
I4	16	1067	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
I4	16	1077	1.60	1.60	1.60	1.60	1.61	1.61	1.61	1.61	1.61	1.61
I4	16	1087	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.62	1.62
I4	16	1097	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
I4	16	1107	1.62	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
I4	16	1117	1.63	1.63	1.63	1.63	1.63	1.64	1.64	1.64	1.64	1.64
I4	16	1127	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.65
I4	16	1137	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
I4	16	1147	1.65	1.65	1.65	1.66	1.66	1.66	1.66	1.66	1.66	
P1	3	126	1.54	1.54	1.54	1.54	1.54	1.54	1.53	1.53	1.53	1.53
P1	3	136	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53
P1	3	146	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
P1	3	156	1.52	1.52	1.52	1.51	1.51	1.51	1.51	1.51	1.51	1.51
P1	3	166	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.50	1.50	1.50
P1	3	176	1.50	1.50	1.50	1.50	1.50	1.50	1.50			
P2	4	183	1.57	1.64	1.69	1.74	1.79	1.83	1.87	1.90	1.93	1.96
P2	4	193	1.99	2.02	2.04	2.06	2.09	2.11	2.12	2.14	2.16	2.17
P2	4	203	2.19	2.20	2.22	2.23	2.24	2.25	2.26	2.27	2.28	2.29
P2	4	213	2.30	2.31	2.32	2.33	2.33	2.34	2.35	2.36	2.36	2.37
P2	4	223	2.37	2.38	2.39	2.39	2.40	2.40				
C1	6	272	1.28	1.36	1.42	1.48	1.54	1.58	1.62	1.66	1.69	1.72
C1	6	282	1.74	1.77	1.79	1.81	1.83	1.85	1.86	1.88	1.89	1.90
C1	6	292	1.92	1.93	1.94	1.95	1.96	1.96	1.97	1.98	1.99	2.00
C1	6	302	2.00	2.01	2.01							
C2	7	305	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02
C2	7	315	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02
C2	7	325	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02
C2	7	335	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02
C2	7	345	2.02	2.02								
I1	9	420	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.11	1.11	1.11
I1	9	430	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11
I1	9	440	1.11	1.11	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
I1	9	450	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.13	1.13
I1	9	460	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
I1	9	470	1.13	1.13	1.13	1.14	1.14	1.14	1.14	1.14	1.14	1.14
I1	9	480	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.15
I1	9	490	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
I1	9	500	1.15	1.15	1.15	1.15	1.15	1.16	1.16	1.16	1.16	1.16
I1	9	510	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
I1	9	520	1.16	1.16	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
I1	9	530	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.18	1.18
I1	9	540	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
I1	9	550	1.18	1.18	1.18	1.18						
BP	11	710	1.60	1.60	1.59	1.59	1.59	1.59	1.59	1.58	1.58	1.58
BP	11	720	1.58	1.58	1.58	1.57	1.57	1.57	1.57	1.57	1.56	1.56
BP	11	730	1.56	1.56	1.56	1.56	1.55	1.55	1.55	1.55	1.55	1.55
BP	11	740	1.55	1.54	1.54	1.54	1.54	1.54	1.54	1.53	1.53	1.53
BP	11	750	1.53	1.53	1.53	1.52	1.52	1.52	1.52	1.52	1.52	1.51

BP	11	760	1.51	1.51	1.51	1.51	1.51	1.50	1.50	1.50	1.50	1.50
BP	11	770	1.50	1.50	1.49	1.49	1.49	1.49	1.49	1.49	1.48	1.48
BP	11	780	1.48	1.48	1.48	1.48	1.47	1.47	1.47	1.47	1.47	1.47
BP	11	790	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.45	1.45	1.45
BP	11	800	1.45	1.45	1.45	1.44	1.44	1.44	1.44	1.44	1.44	1.43
BP	11	810	1.43	1.43	1.43	1.43	1.43	1.43	1.42	1.42	1.42	1.42
BP	11	820	1.42	1.42	1.41	1.41	1.41	1.41	1.41	1.41	1.41	
U1	13	879	1.40	1.40	1.40	1.40	1.40	1.39	1.39	1.39	1.39	1.39
U1	13	889	1.39	1.39	1.39	1.39	1.39	1.38	1.38	1.38	1.38	1.38
U1	13	899	1.38	1.38	1.38	1.38	1.38	1.37	1.37	1.37	1.38	1.38
U1	13	909	1.38	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
U1	13	919	1.37	1.37	1.37	1.37	1.36	1.36	1.36	1.36	1.36	1.36
U1	13	929	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.35	1.35	1.35
U1	13	939	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
U1	13	949	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
U1	13	959	1.34	1.34	1.34	1.33						
U2	15	1007	1.36	1.36	1.36	1.36	1.35	1.35	1.35	1.35	1.35	1.35
U2	15	1017	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
U2	15	1027	1.35	1.35	1.35	1.35	1.35	1.35	1.34	1.34	1.34	1.34
U2	15	1037	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
LF	14	963	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
LF	14	973	1.40	1.40	1.40	1.40	1.40	1.40	1.41	1.41	1.41	1.41
LF	14	983	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
LF	14	993	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
LF	14	1003	1.41	1.41	1.41	1.41						

INTERMEDIATE REPORT

Ammonia Nitrogen — LA-QUAL Model for Upper Terrebonne

mg/L — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
B1	1	11	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
B1	1	21	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
B2	2	31	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05
B2	2	41	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
B2	2	51	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
B2	2	61	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
B2	2	71	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
B2	2	81	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
B2	2	91	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
B2	2	101	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04
B2	2	111	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
B2	2	121	0.04	0.04	0.04	0.04	0.04					
CH	5	229	0.05	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08
CH	5	239	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
CH	5	249	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
CH	5	259	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
CH	5	269	0.09	0.09	0.09							
CW	8	347	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
CW	8	357	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.28

CW	8	367	0.29	0.28	0.27	0.26	0.25	0.25	0.24	0.23	0.22	0.22
CW	8	377	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17	0.16
CW	8	387	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.13	0.13
CW	8	397	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11
CW	8	407	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10
CW	8	417	0.10	0.10	0.10							
I2	10	554	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
I2	10	564	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
I2	10	574	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
I2	10	584	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
I2	10	594	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
I2	10	604	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
I2	10	614	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
I2	10	624	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
I2	10	634	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
I2	10	644	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09
I2	10	654	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
I2	10	664	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
I2	10	674	0.09	0.09	0.09	0.09	0.08	0.08	0.09	0.09	0.09	0.09
I2	10	684	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
I2	10	694	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
I2	10	704	0.09	0.09	0.09	0.09	0.09	0.09				
I3	12	829	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
I3	12	839	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
I3	12	849	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
I3	12	859	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11
I3	12	869	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
I4	16	1047	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
I4	16	1057	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
I4	16	1067	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10
I4	16	1077	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
I4	16	1087	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
I4	16	1097	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
I4	16	1107	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
I4	16	1117	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
I4	16	1127	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
I4	16	1137	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
I4	16	1147	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
P1	3	126	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
P1	3	136	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19
P1	3	146	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
P1	3	156	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
P1	3	166	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18
P1	3	176	0.18	0.18	0.18	0.18	0.18	0.18	0.18			
P2	4	183	0.17	0.16	0.15	0.17	0.17	0.16	0.15	0.15	0.14	0.14
P2	4	193	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.10
P2	4	203	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09
P2	4	213	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
P2	4	223	0.08	0.08	0.08	0.08	0.08	0.07				
C1	6	272	0.09	0.08	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05

C1	6	282	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04
C1	6	292	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
C1	6	302	0.04	0.04	0.04							
C2	7	305	0.68	0.59	0.52	0.45	0.40	0.35	0.31	0.28	0.25	0.23
C2	7	315	0.20	0.19	0.17	0.16	0.14	0.13	0.12	0.12	0.11	0.10
C2	7	325	0.10	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.07
C2	7	335	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
C2	7	345	0.05	0.05								
I1	9	420	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
I1	9	430	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
I1	9	440	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
I1	9	450	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05
I1	9	460	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
I1	9	470	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06
I1	9	480	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
I1	9	490	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
I1	9	500	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
I1	9	510	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
I1	9	520	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
I1	9	530	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
I1	9	540	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
I1	9	550	0.07	0.07	0.07	0.07						
BP	11	710	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
BP	11	720	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03
BP	11	730	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.35
BP	11	740	0.34	0.34	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.30
BP	11	750	0.30	0.30	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27
BP	11	760	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.24	0.24
BP	11	770	0.24	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22
BP	11	780	0.22	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20
BP	11	790	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18
BP	11	800	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17
BP	11	810	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16
BP	11	820	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	
U1	13	879	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
U1	13	889	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
U1	13	899	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06
U1	13	909	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
U1	13	919	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
U1	13	929	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
U1	13	939	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
U1	13	949	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
U1	13	959	0.07	0.07	0.07	0.07						
U2	15	1007	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
U2	15	1017	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
U2	15	1027	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
U2	15	1037	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
LF	14	963	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
LF	14	973	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
LF	14	983	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05

LF	14	993	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
LF	14	1003	0.05	0.05	0.05	0.05						

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen — LA-QUAL Model for Upper Terrebonne

mg/L — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
B1	1	11	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
B1	1	21	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
B2	2	31	1.41	1.33	1.26	1.20	1.14	1.09	1.04	1.00	0.96	0.92
B2	2	41	0.89	0.86	0.83	0.80	0.78	0.75	0.73	0.71	0.69	0.67
B2	2	51	0.65	0.64	0.62	0.61	0.59	0.58	0.57	0.55	0.54	0.53
B2	2	61	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.46	0.45	0.44
B2	2	71	0.43	0.43	0.42	0.41	0.41	0.40	0.40	0.39	0.38	0.38
B2	2	81	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.34	0.33
B2	2	91	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.30
B2	2	101	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27
B2	2	111	0.27	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25
B2	2	121	0.24	0.24	0.24	0.24	0.24					
CH	5	229	0.40	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.56
CH	5	239	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.53	0.52	0.51
CH	5	249	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42
CH	5	259	0.41	0.40	0.38	0.37	0.36	0.34	0.33	0.31	0.30	0.28
CH	5	269	0.27	0.25	0.23							
CW	8	347	0.20	0.18	0.15	0.12	0.10	0.08	0.05	0.03	0.00	0.00
CW	8	357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	417	0.00	0.00	0.00							
I2	10	554	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
I2	10	564	1.48	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
I2	10	574	1.49	1.49	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
I2	10	584	1.50	1.50	1.50	1.50	1.51	1.51	1.51	1.51	1.51	1.51
I2	10	594	1.51	1.51	1.51	1.51	1.51	1.52	1.52	1.52	1.52	1.52
I2	10	604	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.53	1.53	1.53
I2	10	614	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.54
I2	10	624	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
I2	10	634	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
I2	10	644	1.55	1.55	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
I2	10	654	1.56	1.56	1.56	1.57	1.57	1.57	1.57	1.57	1.57	1.57
I2	10	664	1.57	1.57	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
I2	10	674	1.59	1.59	1.59	1.59	1.38	1.38	1.38	1.39	1.39	1.39
I2	10	684	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
I2	10	694	1.39	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
I2	10	704	1.40	1.40	1.40	1.40	1.41	1.41				
I3	12	829	1.40	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41

I3	12	839	1.41	1.41	1.41	1.42	1.42	1.42	1.42	1.42	1.42	1.42
I3	12	849	1.42	1.42	1.42	1.42	1.42	1.43	1.43	1.43	1.43	1.43
I3	12	859	1.43	1.43	1.43	1.43	1.43	1.43	1.44	1.44	1.44	1.44
I3	12	869	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.45	1.45	1.45
I4	16	1047	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.17
I4	16	1057	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
I4	16	1067	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
I4	16	1077	1.17	1.17	1.17	1.18	1.18	1.18	1.18	1.18	1.18	1.18
I4	16	1087	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
I4	16	1097	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
I4	16	1107	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
I4	16	1117	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
I4	16	1127	1.19	1.19	1.19	1.19	1.19	1.19	1.20	1.20	1.20	1.20
I4	16	1137	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
I4	16	1147	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	
P1	3	126	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
P1	3	136	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02
P1	3	146	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04
P1	3	156	0.04	0.04	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07
P1	3	166	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08
P1	3	176	0.08	0.08	0.08	0.08	0.08	0.09	0.09			
P2	4	183	0.14	0.20	0.24	0.32	0.36	0.39	0.42	0.45	0.47	0.49
P2	4	193	0.51	0.53	0.55	0.57	0.58	0.60	0.61	0.62	0.63	0.64
P2	4	203	0.66	0.67	0.68	0.68	0.69	0.70	0.71	0.72	0.72	0.73
P2	4	213	0.74	0.74	0.75	0.75	0.76	0.76	0.77	0.77	0.78	0.78
P2	4	223	0.79	0.79	0.80	0.80	0.80	0.81				
C1	6	272	0.08	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11
C1	6	282	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
C1	6	292	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
C1	6	302	0.12	0.12	0.12							
C2	7	305	0.41	0.47	0.52	0.56	0.59	0.61	0.62	0.63	0.63	0.62
C2	7	315	0.61	0.60	0.58	0.56	0.54	0.52	0.49	0.47	0.44	0.41
C2	7	325	0.38	0.35	0.32	0.28	0.25	0.21	0.18	0.14	0.10	0.07
C2	7	335	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2	7	345	0.00	0.00								
I1	9	420	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.71	1.71
I1	9	430	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71
I1	9	440	1.71	1.71	1.71	1.71	1.71	1.72	1.72	1.72	1.72	1.72
I1	9	450	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72
I1	9	460	1.73	1.73	1.73	1.74	1.74	1.74	1.74	1.74	1.75	1.75
I1	9	470	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
I1	9	480	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76
I1	9	490	1.76	1.76	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77
I1	9	500	1.77	1.77	1.77	1.78	1.78	1.78	1.78	1.78	1.78	1.78
I1	9	510	1.78	1.78	1.78	1.78	1.78	1.79	1.79	1.79	1.79	1.79
I1	9	520	1.79	1.79	1.79	1.79	1.79	1.79	1.80	1.80	1.80	1.80
I1	9	530	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.81	1.81	1.81
I1	9	540	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.82	1.82
I1	9	550	1.84	1.84	1.84	1.84						
BP	11	710	1.59	1.58	1.57	1.56	1.55	1.54	1.53	1.52	1.51	1.50

BP	11	720	1.49	1.48	1.47	1.46	1.45	1.44	1.43	1.42	1.42	1.41
BP	11	730	1.40	1.39	1.38	1.37	1.37	1.36	1.35	1.34	1.34	1.36
BP	11	740	1.36	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
BP	11	750	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
BP	11	760	1.34	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
BP	11	770	1.33	1.33	1.33	1.33	1.33	1.33	1.32	1.32	1.32	1.32
BP	11	780	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
BP	11	790	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
BP	11	800	1.33	1.33	1.33	1.33	1.33	1.33	1.34	1.34	1.34	1.34
BP	11	810	1.34	1.34	1.34	1.34	1.34	1.35	1.35	1.35	1.35	1.35
BP	11	820	1.35	1.36	1.36	1.36	1.36	1.36	1.37	1.37	1.37	
U1	13	879	1.60	1.59	1.59	1.59	1.58	1.58	1.58	1.57	1.57	1.56
U1	13	889	1.56	1.56	1.55	1.55	1.55	1.54	1.54	1.54	1.53	1.53
U1	13	899	1.52	1.52	1.52	1.51	1.51	1.51	1.50	1.50	1.20	1.20
U1	13	909	1.19	1.19	1.19	1.19	1.18	1.18	1.18	1.17	1.17	1.17
U1	13	919	1.17	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.14	1.14
U1	13	929	1.14	1.13	1.13	1.13	1.13	1.12	1.12	1.12	1.11	1.11
U1	13	939	1.11	1.11	1.10	1.10	1.10	1.09	1.09	1.09	1.09	1.08
U1	13	949	1.08	1.08	1.07	1.07	1.07	1.07	1.06	1.06	1.06	1.05
U1	13	959	1.05	1.05	1.04	1.04						
U2	15	1007	0.72	0.72	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
U2	15	1017	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
U2	15	1027	0.70	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
U2	15	1037	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
LF	14	963	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	983	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	1003	0.00	0.00	0.00	0.00						

INTERMEDIATE REPORT

Total Nitrogen — LA-QUAL Model for Upper Terrebonne

mg/L — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
B1	1	11	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
B1	1	21	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
B2	2	31	3.78	3.65	3.53	3.43	3.33	3.25	3.17	3.10	3.03	2.97
B2	2	41	2.92	2.87	2.82	2.77	2.73	2.69	2.66	2.62	2.59	2.56
B2	2	51	2.53	2.50	2.47	2.45	2.43	2.40	2.38	2.36	2.34	2.32
B2	2	61	2.31	2.29	2.27	2.26	2.24	2.23	2.21	2.20	2.19	2.18
B2	2	71	2.16	2.15	2.14	2.13	2.12	2.11	2.10	2.09	2.08	2.07
B2	2	81	2.06	2.06	2.05	2.04	2.03	2.02	2.02	2.01	2.00	2.00
B2	2	91	1.99	1.98	1.98	1.97	1.97	1.96	1.95	1.95	1.94	1.94
B2	2	101	1.93	1.93	1.92	1.92	1.91	1.91	1.91	1.90	1.90	1.89
B2	2	111	1.89	1.88	1.88	1.88	1.87	1.87	1.87	1.86	1.86	1.86
B2	2	121	1.85	1.85	1.85	1.84	1.84					
CH	5	229	2.24	2.20	2.19	2.19	2.19	2.19	2.19	2.18	2.18	2.17
CH	5	239	2.17	2.16	2.16	2.15	2.15	2.14	2.13	2.12	2.12	2.11
CH	5	249	2.10	2.09	2.08	2.07	2.06	2.04	2.03	2.02	2.01	1.99

CH	5	259	1.98	1.97	1.95	1.94	1.92	1.90	1.89	1.87	1.85	1.83
CH	5	269	1.81	1.79	1.77							
CW	8	347	1.74	1.71	1.68	1.65	1.62	1.59	1.56	1.54	1.51	1.50
CW	8	357	1.49	1.49	1.48	1.48	1.48	1.47	1.47	1.46	1.46	1.68
CW	8	367	1.68	1.67	1.65	1.64	1.63	1.62	1.61	1.60	1.59	1.58
CW	8	377	1.57	1.56	1.55	1.54	1.53	1.52	1.51	1.51	1.50	1.49
CW	8	387	1.48	1.48	1.47	1.46	1.46	1.45	1.44	1.44	1.43	1.43
CW	8	397	1.42	1.42	1.41	1.41	1.40	1.40	1.39	1.39	1.38	1.38
CW	8	407	1.37	1.37	1.36	1.36	1.35	1.35	1.35	1.34	1.34	1.33
CW	8	417	1.33	1.33	1.32							
I2	10	554	2.75	2.75	2.76	2.76	2.77	2.77	2.78	2.78	2.79	2.79
I2	10	564	2.79	2.80	2.80	2.81	2.81	2.82	2.82	2.83	2.83	2.84
I2	10	574	2.84	2.85	2.85	2.86	2.86	2.87	2.87	2.88	2.88	2.89
I2	10	584	2.89	2.90	2.90	2.91	2.91	2.92	2.92	2.93	2.93	2.94
I2	10	594	2.94	2.95	2.95	2.96	2.96	2.97	2.97	2.98	2.98	2.98
I2	10	604	2.99	2.99	3.00	3.00	3.01	3.01	3.02	3.02	3.03	3.03
I2	10	614	3.04	3.04	3.05	3.05	3.06	3.06	3.07	3.07	3.08	3.08
I2	10	624	3.09	3.09	3.10	3.10	3.11	3.11	3.12	3.12	3.13	3.13
I2	10	634	3.14	3.14	3.15	3.15	3.16	3.16	3.16	3.17	3.17	3.18
I2	10	644	3.18	3.19	3.19	3.20	3.20	3.21	3.21	3.22	3.22	3.23
I2	10	654	3.23	3.24	3.24	3.25	3.25	3.26	3.26	3.27	3.27	3.28
I2	10	664	3.28	3.29	3.30	3.30	3.31	3.31	3.32	3.32	3.33	3.33
I2	10	674	3.34	3.34	3.34	3.35	3.07	3.07	3.08	3.08	3.08	3.09
I2	10	684	3.09	3.10	3.10	3.10	3.11	3.11	3.12	3.12	3.13	3.13
I2	10	694	3.13	3.14	3.14	3.15	3.15	3.16	3.16	3.16	3.17	3.17
I2	10	704	3.18	3.18	3.19	3.19	3.19	3.20				
I3	12	829	3.18	3.18	3.18	3.19	3.19	3.19	3.19	3.19	3.20	3.20
I3	12	839	3.20	3.20	3.20	3.21	3.21	3.21	3.21	3.21	3.22	3.22
I3	12	849	3.22	3.22	3.23	3.23	3.23	3.23	3.23	3.24	3.24	3.24
I3	12	859	3.24	3.24	3.25	3.25	3.25	3.25	3.25	3.26	3.26	3.26
I3	12	869	3.26	3.26	3.27	3.27	3.27	3.27	3.27	3.28	3.28	3.28
I4	16	1047	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.85	2.85
I4	16	1057	2.85	2.85	2.85	2.85	2.85	2.85	2.86	2.86	2.86	2.86
I4	16	1067	2.86	2.86	2.86	2.86	2.86	2.87	2.87	2.87	2.87	2.87
I4	16	1077	2.87	2.87	2.87	2.88	2.88	2.88	2.88	2.88	2.88	2.88
I4	16	1087	2.88	2.88	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89
I4	16	1097	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.91
I4	16	1107	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.92	2.92
I4	16	1117	2.92	2.92	2.92	2.92	2.92	2.92	2.93	2.93	2.93	2.93
I4	16	1127	2.93	2.93	2.93	2.93	2.93	2.94	2.94	2.94	2.94	2.94
I4	16	1137	2.94	2.94	2.94	2.95	2.95	2.95	2.95	2.95	2.95	2.95
I4	16	1147	2.95	2.95	2.96	2.96	2.96	2.96	2.96	2.96	2.96	
P1	3	126	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
P1	3	136	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
P1	3	146	1.74	1.74	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
P1	3	156	1.75	1.75	1.76	1.76	1.76	1.76	1.76	1.76	1.77	1.77
P1	3	166	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77
P1	3	176	1.77	1.77	1.77	1.77	1.77	1.77	1.77			
P2	4	183	1.88	1.99	2.08	2.23	2.32	2.38	2.44	2.50	2.55	2.59
P2	4	193	2.64	2.68	2.71	2.75	2.78	2.81	2.84	2.87	2.90	2.92

P2	4	203	2.94	2.97	2.99	3.01	3.03	3.04	3.06	3.08	3.09	3.11
P2	4	213	3.12	3.14	3.15	3.16	3.18	3.19	3.20	3.21	3.22	3.23
P2	4	223	3.24	3.25	3.26	3.27	3.28	3.29				
C1	6	272	1.44	1.52	1.59	1.64	1.69	1.74	1.78	1.81	1.85	1.87
C1	6	282	1.90	1.92	1.95	1.97	1.98	2.00	2.02	2.03	2.05	2.06
C1	6	292	2.07	2.08	2.09	2.10	2.11	2.12	2.13	2.14	2.15	2.15
C1	6	302	2.16	2.17	2.17							
C2	7	305	3.10	3.08	3.05	3.03	3.00	2.98	2.95	2.92	2.89	2.86
C2	7	315	2.83	2.80	2.77	2.74	2.70	2.67	2.64	2.60	2.57	2.53
C2	7	325	2.50	2.46	2.42	2.39	2.35	2.31	2.27	2.23	2.20	2.16
C2	7	335	2.12	2.09	2.09	2.09	2.08	2.08	2.08	2.08	2.08	2.08
C2	7	345	2.08	2.08								
I1	9	420	2.83	2.83	2.83	2.84	2.84	2.84	2.84	2.84	2.85	2.85
I1	9	430	2.85	2.85	2.85	2.85	2.86	2.86	2.86	2.86	2.86	2.86
I1	9	440	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.88	2.88	2.88
I1	9	450	2.88	2.88	2.88	2.89	2.89	2.89	2.89	2.89	2.89	2.90
I1	9	460	2.90	2.90	2.90	2.92	2.92	2.93	2.93	2.93	2.93	2.93
I1	9	470	2.93	2.94	2.94	2.94	2.94	2.94	2.94	2.95	2.95	2.95
I1	9	480	2.95	2.95	2.95	2.96	2.96	2.96	2.96	2.96	2.96	2.96
I1	9	490	2.97	2.97	2.97	2.97	2.97	2.97	2.98	2.98	2.98	2.98
I1	9	500	2.98	2.98	2.99	2.99	2.99	2.99	2.99	2.99	3.00	3.00
I1	9	510	3.00	3.00	3.00	3.00	3.01	3.01	3.01	3.01	3.01	3.01
I1	9	520	3.01	3.02	3.02	3.02	3.02	3.02	3.02	3.03	3.03	3.03
I1	9	530	3.03	3.03	3.03	3.04	3.04	3.04	3.04	3.04	3.04	3.05
I1	9	540	3.05	3.05	3.05	3.05	3.05	3.05	3.06	3.06	3.06	3.06
I1	9	550	3.09	3.09	3.10	3.10						
BP	11	710	3.19	3.18	3.17	3.16	3.15	3.14	3.13	3.12	3.11	3.10
BP	11	720	3.09	3.08	3.07	3.06	3.05	3.04	3.03	3.02	3.01	3.00
BP	11	730	2.99	2.98	2.97	2.97	2.96	2.95	2.94	2.93	2.92	3.25
BP	11	740	3.24	3.24	3.23	3.22	3.22	3.21	3.20	3.19	3.19	3.18
BP	11	750	3.17	3.17	3.16	3.15	3.15	3.14	3.14	3.13	3.12	3.12
BP	11	760	3.11	3.11	3.10	3.10	3.09	3.09	3.08	3.07	3.07	3.06
BP	11	770	3.06	3.05	3.05	3.05	3.04	3.04	3.03	3.03	3.02	3.02
BP	11	780	3.02	3.02	3.01	3.01	3.01	3.00	3.00	3.00	2.99	2.99
BP	11	790	2.99	2.98	2.98	2.98	2.98	2.97	2.97	2.97	2.96	2.96
BP	11	800	2.96	2.96	2.96	2.95	2.95	2.95	2.95	2.95	2.94	2.94
BP	11	810	2.94	2.94	2.94	2.94	2.94	2.93	2.93	2.93	2.93	2.93
BP	11	820	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	
U1	13	879	3.03	3.02	3.02	3.01	3.01	3.01	3.00	3.00	2.99	2.99
U1	13	889	2.99	2.98	2.98	2.98	2.97	2.97	2.96	2.96	2.96	2.95
U1	13	899	2.95	2.94	2.94	2.94	2.93	2.93	2.92	2.92	2.64	2.63
U1	13	909	2.63	2.63	2.62	2.62	2.62	2.61	2.61	2.61	2.60	2.60
U1	13	919	2.60	2.59	2.59	2.59	2.58	2.58	2.58	2.57	2.57	2.57
U1	13	929	2.56	2.56	2.56	2.55	2.55	2.55	2.54	2.54	2.54	2.53
U1	13	939	2.53	2.53	2.52	2.52	2.51	2.51	2.51	2.50	2.50	2.50
U1	13	949	2.49	2.49	2.49	2.48	2.48	2.48	2.47	2.47	2.47	2.46
U1	13	959	2.46	2.46	2.45	2.45						
U2	15	1007	2.14	2.14	2.14	2.14	2.13	2.13	2.13	2.13	2.13	2.13
U2	15	1017	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.11	2.11	2.11
U2	15	1027	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.10

U2	15	1037	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
LF	14	963	1.43	1.43	1.43	1.43	1.44	1.44	1.44	1.44	1.44	1.44
LF	14	973	1.44	1.44	1.44	1.44	1.44	1.44	1.45	1.45	1.45	1.45
LF	14	983	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.46	1.46
LF	14	993	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
LF	14	1003	1.46	1.46	1.47	1.47						

INTERMEDIATE REPORT

Chlorophyll a — LA-QUAL Model for Upper Terrebonne

µg/L — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	121	0.00	0.00	0.00	0.00	0.00					
CH	5	229	1.53	3.07	4.60	6.14	7.67	9.21	10.74	12.28	13.81	15.35
CH	5	239	16.88	18.42	19.95	21.49	23.02	24.56	26.09	27.63	29.16	30.70
CH	5	249	32.23	33.77	35.30	36.84	38.37	39.91	41.44	42.98	44.51	46.05
CH	5	259	47.58	49.12	50.65	52.19	53.72	55.26	56.79	58.33	59.86	61.40
CH	5	269	62.93	64.47	66.00							
CW	8	347	65.10	64.19	63.29	62.38	61.48	60.58	59.67	58.77	57.86	56.96
CW	8	357	56.05	55.15	54.25	53.34	52.44	51.53	50.63	49.73	48.82	47.92
CW	8	367	47.01	46.11	45.21	44.30	43.40	42.49	41.59	40.68	39.78	38.88
CW	8	377	37.97	37.07	36.16	35.26	34.36	33.45	32.55	31.64	30.74	29.84
CW	8	387	28.93	28.03	27.12	26.22	25.32	24.41	23.51	22.60	21.70	20.79
CW	8	397	19.89	18.99	18.08	17.18	16.27	15.37	14.47	13.56	12.66	11.75
CW	8	407	10.85	9.95	9.04	8.14	7.23	6.33	5.42	4.52	3.62	2.71
CW	8	417	1.81	0.90	0.00							
I2	10	554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	574	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	604	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	614	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	624	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	634	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	644	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	654	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	664	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	674	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

I2	10	684	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	704	0.00	0.00	0.00	0.00	0.00	0.00				
I3	12	829	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I3	12	839	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I3	12	849	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I3	12	859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I3	12	869	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1057	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1067	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1077	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1087	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1097	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1137	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
P1	3	126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	176	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
P2	4	183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2	4	193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2	4	203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2	4	213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2	4	223	0.00	0.00	0.00	0.00	0.00	0.00				
C1	6	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1	6	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1	6	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1	6	302	0.00	0.00	0.00							
C2	7	305	1.57	3.14	4.71	6.29	7.86	9.43	11.00	12.57	14.14	15.71
C2	7	315	17.29	18.86	20.43	22.00	23.57	25.14	26.71	28.29	29.86	31.43
C2	7	325	33.00	34.57	36.14	37.71	39.29	40.86	42.43	44.00	45.57	47.14
C2	7	335	48.71	50.29	51.86	53.43	55.00	56.57	58.14	59.71	61.29	62.86
C2	7	345	64.43	66.00								
I1	9	420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	430	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	510	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

I1	9	530	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	550	0.00	0.00	0.00	0.00						
BP	11	710	57.51	57.03	56.54	56.05	55.56	55.08	54.59	54.10	53.61	53.13
BP	11	720	52.64	52.15	51.66	51.18	50.69	50.20	49.71	49.23	48.74	48.25
BP	11	730	47.76	47.28	46.79	46.30	45.82	45.33	44.84	44.35	43.87	43.38
BP	11	740	42.89	42.40	41.92	41.43	40.94	40.45	39.97	39.48	38.99	38.50
BP	11	750	38.02	37.53	37.04	36.55	36.07	35.58	35.09	34.61	34.12	33.63
BP	11	760	33.14	32.66	32.17	31.68	31.19	30.71	30.22	29.73	29.24	28.76
BP	11	770	28.27	27.78	27.29	26.81	26.32	25.83	25.34	24.86	24.37	23.88
BP	11	780	23.39	22.91	22.42	21.93	21.45	20.96	20.47	19.98	19.50	19.01
BP	11	790	18.52	18.03	17.55	17.06	16.57	16.08	15.60	15.11	14.62	14.13
BP	11	800	13.65	13.16	12.67	12.18	11.70	11.21	10.72	10.24	9.75	9.26
BP	11	810	8.77	8.29	7.80	7.31	6.82	6.34	5.85	5.36	4.87	4.39
BP	11	820	3.90	3.41	2.92	2.44	1.95	1.46	0.97	0.49	0.00	
U1	13	879	32.07	32.14	32.21	32.29	32.36	32.43	32.50	32.57	32.64	32.71
U1	13	889	32.79	32.86	32.93	33.00	33.07	33.14	33.21	33.29	33.36	33.43
U1	13	899	33.50	33.57	33.64	33.71	33.79	33.86	33.93	34.00	34.07	34.14
U1	13	909	34.21	34.29	34.36	34.43	34.50	34.57	34.64	34.71	34.79	34.86
U1	13	919	34.93	35.00	35.07	35.14	35.21	35.29	35.36	35.43	35.50	35.57
U1	13	929	35.64	35.71	35.79	35.86	35.93	36.00	36.07	36.14	36.21	36.29
U1	13	939	36.36	36.43	36.50	36.57	36.64	36.71	36.79	36.86	36.93	37.00
U1	13	949	37.07	37.14	37.21	37.29	37.36	37.43	37.50	37.57	37.64	37.71
U1	13	959	37.79	37.86	37.93	38.00						
U2	15	1007	37.05	36.10	35.15	34.20	33.25	32.30	31.35	30.40	29.45	28.50
U2	15	1017	27.55	26.60	25.65	24.70	23.75	22.80	21.85	20.90	19.95	19.00
U2	15	1027	18.05	17.10	16.15	15.20	14.25	13.30	12.35	11.40	10.45	9.50
U2	15	1037	8.55	7.60	6.65	5.70	4.75	3.80	2.85	1.90	0.95	0.00
LF	14	963	0.86	1.73	2.59	3.45	4.32	5.18	6.05	6.91	7.77	8.64
LF	14	973	9.50	10.36	11.23	12.09	12.95	13.82	14.68	15.55	16.41	17.27
LF	14	983	18.14	19.00	19.86	20.73	21.59	22.45	23.32	24.18	25.05	25.91
LF	14	993	26.77	27.64	28.50	29.36	30.23	31.09	31.95	32.82	33.68	34.55
LF	14	1003	35.41	36.27	37.14	38.00						

INTERMEDIATE REPORT

Temperature deg C — LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	24.75	24.89	25.04	25.19	25.33	25.48	25.63	25.77	25.92	26.07
B1	1	11	26.21	26.36	26.51	26.65	26.80	26.95	27.09	27.24	27.39	27.53
B1	1	21	27.68	27.83	27.97	28.12	28.27	28.41	28.56	28.71	28.85	29.00
B2	2	31	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
B2	2	41	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
B2	2	51	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
B2	2	61	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
B2	2	71	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
B2	2	81	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
B2	2	91	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
B2	2	101	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
B2	2	111	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00

B2	2	121	29.00	29.00	29.00	29.00	29.00					
CH	5	229	29.05	29.11	29.16	29.21	29.27	29.32	29.37	29.43	29.48	29.53
CH	5	239	29.59	29.64	29.70	29.75	29.80	29.86	29.91	29.96	30.02	30.07
CH	5	249	30.12	30.18	30.23	30.28	30.34	30.39	30.44	30.50	30.55	30.60
CH	5	259	30.66	30.71	30.77	30.82	30.87	30.93	30.98	31.03	31.09	31.14
CH	5	269	31.19	31.25	31.30							
CW	8	347	31.29	31.28	31.26	31.25	31.24	31.23	31.21	31.20	31.19	31.18
CW	8	357	31.16	31.15	31.14	31.13	31.12	31.10	31.09	31.08	31.07	31.05
CW	8	367	31.04	31.03	31.02	31.00	30.99	30.98	30.97	30.95	30.94	30.93
CW	8	377	30.92	30.91	30.89	30.88	30.87	30.86	30.84	30.83	30.82	30.81
CW	8	387	30.79	30.78	30.77	30.76	30.75	30.73	30.72	30.71	30.70	30.68
CW	8	397	30.67	30.66	30.65	30.63	30.62	30.61	30.60	30.58	30.57	30.56
CW	8	407	30.55	30.54	30.52	30.51	30.50	30.49	30.47	30.46	30.45	30.44
CW	8	417	30.42	30.41	30.40							
I2	10	554	30.39	30.39	30.38	30.37	30.36	30.36	30.35	30.34	30.34	30.33
I2	10	564	30.32	30.32	30.31	30.30	30.29	30.29	30.28	30.27	30.27	30.26
I2	10	574	30.25	30.24	30.24	30.23	30.22	30.22	30.21	30.20	30.20	30.19
I2	10	584	30.18	30.17	30.17	30.16	30.15	30.15	30.14	30.13	30.12	30.12
I2	10	594	30.11	30.10	30.10	30.09	30.08	30.08	30.07	30.06	30.05	30.05
I2	10	604	30.04	30.03	30.03	30.02	30.01	30.01	30.00	29.99	29.98	29.98
I2	10	614	29.97	29.96	29.96	29.95	29.94	29.93	29.93	29.92	29.91	29.91
I2	10	624	29.90	29.89	29.89	29.88	29.87	29.86	29.86	29.85	29.84	29.84
I2	10	634	29.83	29.82	29.81	29.81	29.80	29.79	29.79	29.78	29.77	29.77
I2	10	644	29.76	29.75	29.74	29.74	29.73	29.72	29.72	29.71	29.70	29.69
I2	10	654	29.69	29.68	29.67	29.67	29.66	29.65	29.65	29.64	29.63	29.62
I2	10	664	29.62	29.61	29.60	29.60	29.59	29.58	29.57	29.57	29.56	29.55
I2	10	674	29.55	29.54	29.53	29.53	29.52	29.51	29.50	29.50	29.49	29.48
I2	10	684	29.48	29.47	29.46	29.46	29.45	29.44	29.43	29.43	29.42	29.41
I2	10	694	29.41	29.40	29.39	29.38	29.38	29.37	29.36	29.36	29.35	29.34
I2	10	704	29.34	29.33	29.32	29.31	29.31	29.30				
I3	12	829	29.32	29.33	29.35	29.36	29.38	29.40	29.41	29.43	29.44	29.46
I3	12	839	29.48	29.49	29.51	29.52	29.54	29.56	29.57	29.59	29.60	29.62
I3	12	849	29.64	29.65	29.67	29.68	29.70	29.72	29.73	29.75	29.76	29.78
I3	12	859	29.80	29.81	29.83	29.84	29.86	29.88	29.89	29.91	29.92	29.94
I3	12	869	29.96	29.97	29.99	30.00	30.02	30.04	30.05	30.07	30.08	30.10
I4	16	1047	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10
I4	16	1057	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10
I4	16	1067	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10
I4	16	1077	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10
I4	16	1087	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10
I4	16	1097	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10
I4	16	1107	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10
I4	16	1117	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10
I4	16	1127	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10
I4	16	1137	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10
I4	16	1147	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	30.10	
P1	3	126	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00
P1	3	136	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00
P1	3	146	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00
P1	3	156	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00

P1	3	166	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00
P1	3	176	27.00	27.00	27.00	27.00	27.00	27.00	27.00			
P2	4	183	27.04	27.09	27.13	27.17	27.22	27.26	27.30	27.35	27.39	27.43
P2	4	193	27.48	27.52	27.57	27.61	27.65	27.70	27.74	27.78	27.83	27.87
P2	4	203	27.91	27.96	28.00	28.04	28.09	28.13	28.17	28.22	28.26	28.30
P2	4	213	28.35	28.39	28.43	28.48	28.52	28.57	28.61	28.65	28.70	28.74
P2	4	223	28.78	28.83	28.87	28.91	28.96	29.00				
C1	6	272	26.38	26.46	26.55	26.63	26.71	26.79	26.87	26.95	27.04	27.12
C1	6	282	27.20	27.28	27.36	27.45	27.53	27.61	27.69	27.77	27.85	27.94
C1	6	292	28.02	28.10	28.18	28.26	28.35	28.43	28.51	28.59	28.67	28.75
C1	6	302	28.84	28.92	29.00							
C2	7	305	29.05	29.11	29.16	29.22	29.27	29.33	29.38	29.44	29.49	29.55
C2	7	315	29.60	29.66	29.71	29.77	29.82	29.88	29.93	29.99	30.04	30.10
C2	7	325	30.15	30.20	30.26	30.31	30.37	30.42	30.48	30.53	30.59	30.64
C2	7	335	30.70	30.75	30.81	30.86	30.92	30.97	31.03	31.08	31.14	31.19
C2	7	345	31.25	31.30								
I1	9	420	29.80	29.81	29.81	29.82	29.82	29.83	29.83	29.84	29.84	29.84
I1	9	430	29.85	29.85	29.86	29.86	29.87	29.87	29.88	29.88	29.89	29.89
I1	9	440	29.89	29.90	29.90	29.91	29.91	29.92	29.92	29.93	29.93	29.93
I1	9	450	29.94	29.94	29.95	29.95	29.96	29.96	29.97	29.97	29.97	29.98
I1	9	460	29.98	29.99	29.99	30.00	30.00	30.01	30.01	30.01	30.02	30.02
I1	9	470	30.03	30.03	30.04	30.04	30.05	30.05	30.06	30.06	30.06	30.07
I1	9	480	30.07	30.08	30.08	30.09	30.09	30.10	30.10	30.10	30.11	30.11
I1	9	490	30.12	30.12	30.13	30.13	30.14	30.14	30.14	30.15	30.15	30.16
I1	9	500	30.16	30.17	30.17	30.18	30.18	30.19	30.19	30.19	30.20	30.20
I1	9	510	30.21	30.21	30.22	30.22	30.23	30.23	30.23	30.24	30.24	30.25
I1	9	520	30.25	30.26	30.26	30.27	30.27	30.27	30.28	30.28	30.29	30.29
I1	9	530	30.30	30.30	30.31	30.31	30.31	30.32	30.32	30.33	30.33	30.34
I1	9	540	30.34	30.35	30.35	30.36	30.36	30.36	30.37	30.37	30.38	30.38
I1	9	550	30.39	30.39	30.40	30.40						
BP	11	710	29.10	29.10	29.11	29.11	29.11	29.11	29.11	29.11	29.12	29.12
BP	11	720	29.12	29.12	29.12	29.12	29.13	29.13	29.13	29.13	29.13	29.13
BP	11	730	29.14	29.14	29.14	29.14	29.14	29.14	29.15	29.15	29.15	29.15
BP	11	740	29.15	29.15	29.16	29.16	29.16	29.16	29.16	29.16	29.17	29.17
BP	11	750	29.17	29.17	29.17	29.17	29.18	29.18	29.18	29.18	29.18	29.18
BP	11	760	29.19	29.19	29.19	29.19	29.19	29.19	29.20	29.20	29.20	29.20
BP	11	770	29.20	29.20	29.21	29.21	29.21	29.21	29.21	29.21	29.22	29.22
BP	11	780	29.22	29.22	29.22	29.22	29.23	29.23	29.23	29.23	29.23	29.23
BP	11	790	29.24	29.24	29.24	29.24	29.24	29.24	29.25	29.25	29.25	29.25
BP	11	800	29.25	29.25	29.26	29.26	29.26	29.26	29.26	29.26	29.27	29.27
BP	11	810	29.27	29.27	29.27	29.27	29.28	29.28	29.28	29.28	29.28	29.28
BP	11	820	29.29	29.29	29.29	29.29	29.29	29.29	29.30	29.30	29.30	
U1	13	879	31.49	31.48	31.48	31.47	31.46	31.45	31.44	31.43	31.42	31.42
U1	13	889	31.41	31.40	31.39	31.38	31.38	31.37	31.36	31.35	31.34	31.33
U1	13	899	31.33	31.32	31.31	31.30	31.29	31.28	31.27	31.27	31.26	31.25
U1	13	909	31.24	31.23	31.23	31.22	31.21	31.20	31.19	31.18	31.17	31.17
U1	13	919	31.16	31.15	31.14	31.13	31.12	31.12	31.11	31.10	31.09	31.08
U1	13	929	31.07	31.07	31.06	31.05	31.04	31.03	31.02	31.02	31.01	31.00
U1	13	939	30.99	30.98	30.98	30.97	30.96	30.95	30.94	30.93	30.92	30.92
U1	13	949	30.91	30.90	30.89	30.88	30.88	30.87	30.86	30.85	30.84	30.83

U1	13	959	30.82	30.82	30.81	30.80						
U2	15	1007	30.78	30.76	30.75	30.73	30.71	30.69	30.68	30.66	30.64	30.62
U2	15	1017	30.61	30.59	30.57	30.56	30.54	30.52	30.50	30.49	30.47	30.45
U2	15	1027	30.43	30.41	30.40	30.38	30.36	30.34	30.33	30.31	30.29	30.27
U2	15	1037	30.26	30.24	30.22	30.20	30.19	30.17	30.15	30.14	30.12	30.10
LF	14	963	30.51	30.51	30.52	30.53	30.53	30.54	30.55	30.55	30.56	30.57
LF	14	973	30.58	30.58	30.59	30.60	30.60	30.61	30.62	30.62	30.63	30.64
LF	14	983	30.64	30.65	30.66	30.66	30.67	30.68	30.68	30.69	30.70	30.70
LF	14	993	30.71	30.72	30.73	30.73	30.74	30.75	30.75	30.76	30.77	30.77
LF	14	1003	30.78	30.79	30.79	30.80						

INTERMEDIATE REPORT

Salinity
ppt

LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	121	0.00	0.00	0.00	0.00	0.00					
CH	5	229	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CH	5	239	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CH	5	249	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CH	5	259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CH	5	269	0.00	0.00	0.00							
CW	8	347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	417	0.00	0.00	0.00							
I2	10	554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	574	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	604	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	614	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	624	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	634	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

I2	10	644	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	654	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	664	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	674	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	684	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	704	0.00	0.00	0.00	0.00	0.00	0.00				
I3	12	829	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I3	12	839	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I3	12	849	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I3	12	859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I3	12	869	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1057	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1067	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1077	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1087	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1097	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1137	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
P1	3	126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	176	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
P2	4	183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2	4	193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2	4	203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2	4	213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2	4	223	0.00	0.00	0.00	0.00	0.00	0.00				
C1	6	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1	6	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1	6	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1	6	302	0.00	0.00	0.00							
C2	7	305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2	7	315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2	7	325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2	7	335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2	7	345	0.00	0.00								
I1	9	420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	430	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

I1	9	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	510	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	530	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	550	0.00	0.00	0.00	0.00						
BP	11	710	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	720	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	740	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	760	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	770	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	780	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	790	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	810	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	820	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
U1	13	879	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	889	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	899	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	909	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	919	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	929	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	939	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	959	0.00	0.00	0.00	0.00						
U2	15	1007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U2	15	1017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U2	15	1027	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U2	15	1037	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	963	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	983	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	1003	0.00	0.00	0.00	0.00						

INTERMEDIATE REPORT

River Distance — LA-QUAL Model for Upper Terrebonne

km — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	56.	55.	55.	55.	55.	55.	55.	55.	55.	55.
B1	1	11	55.	54.	54.	54.	54.	54.	54.	54.	54.	54.
B1	1	21	54.	53.	53.	53.	53.	53.	53.	53.	53.	53.
B2	2	31	52.	52.	52.	52.	52.	52.	52.	52.	52.	52.
B2	2	41	52.	51.	51.	51.	51.	51.	51.	51.	51.	51.
B2	2	51	51.	50.	50.	50.	50.	50.	50.	50.	50.	50.
B2	2	61	50.	49.	49.	49.	49.	49.	49.	49.	49.	49.
B2	2	71	49.	48.	48.	48.	48.	48.	48.	48.	48.	48.

B2	2	81	48.	47.	47.	47.	47.	47.	47.	47.	47.	47.
B2	2	91	47.	46.	46.	46.	46.	46.	46.	46.	46.	46.
B2	2	101	46.	45.	45.	45.	45.	45.	45.	45.	45.	45.
B2	2	111	45.	44.	44.	44.	44.	44.	44.	44.	44.	44.
B2	2	121	44.	43.	43.	43.	43.					
CH	5	229	43.	43.	43.	43.	43.	43.	42.	42.	42.	42.
CH	5	239	42.	42.	42.	42.	42.	42.	41.	41.	41.	41.
CH	5	249	41.	41.	41.	41.	41.	41.	40.	40.	40.	40.
CH	5	259	40.	40.	40.	40.	40.	40.	39.	39.	39.	39.
CH	5	269	39.	39.	39.							
CW	8	347	39.	39.	39.	38.	38.	38.	38.	38.	38.	38.
CW	8	357	38.	38.	38.	37.	37.	37.	37.	37.	37.	37.
CW	8	367	37.	37.	37.	36.	36.	36.	36.	36.	36.	36.
CW	8	377	36.	36.	36.	35.	35.	35.	35.	35.	35.	35.
CW	8	387	35.	35.	35.	34.	34.	34.	34.	34.	34.	34.
CW	8	397	34.	34.	34.	33.	33.	33.	33.	33.	33.	33.
CW	8	407	33.	33.	33.	32.	32.	32.	32.	32.	32.	32.
CW	8	417	32.	32.	32.							
I2	10	554	31.	31.	31.	31.	31.	31.	31.	31.	31.	30.
I2	10	564	30.	30.	30.	30.	30.	30.	30.	30.	30.	29.
I2	10	574	29.	29.	29.	29.	29.	29.	29.	29.	29.	28.
I2	10	584	28.	28.	28.	28.	28.	28.	28.	28.	28.	27.
I2	10	594	27.	27.	27.	27.	27.	27.	27.	27.	27.	26.
I2	10	604	26.	26.	26.	26.	26.	26.	26.	26.	26.	25.
I2	10	614	25.	25.	25.	25.	25.	25.	25.	25.	25.	24.
I2	10	624	24.	24.	24.	24.	24.	24.	24.	24.	24.	23.
I2	10	634	23.	23.	23.	23.	23.	23.	23.	23.	23.	22.
I2	10	644	22.	22.	22.	22.	22.	22.	22.	22.	22.	21.
I2	10	654	21.	21.	21.	21.	21.	21.	21.	21.	21.	20.
I2	10	664	20.	20.	20.	20.	20.	20.	20.	20.	20.	19.
I2	10	674	19.	19.	19.	19.	19.	19.	19.	19.	19.	18.
I2	10	684	18.	18.	18.	18.	18.	18.	18.	18.	18.	17.
I2	10	694	17.	17.	17.	17.	17.	17.	17.	17.	17.	16.
I2	10	704	16.	16.	16.	16.	16.	16.				
I3	12	829	16.	16.	16.	15.	15.	15.	15.	15.	15.	15.
I3	12	839	15.	15.	15.	14.	14.	14.	14.	14.	14.	14.
I3	12	849	14.	14.	14.	13.	13.	13.	13.	13.	13.	13.
I3	12	859	13.	13.	13.	12.	12.	12.	12.	12.	12.	12.
I3	12	869	12.	12.	12.	11.	11.	11.	11.	11.	11.	11.
I4	16	1047	11.	11.	11.	10.	10.	10.	10.	10.	10.	10.
I4	16	1057	10.	10.	10.	9.	9.	9.	9.	9.	9.	9.
I4	16	1067	9.	9.	9.	8.	8.	8.	8.	8.	8.	8.
I4	16	1077	8.	8.	8.	7.	7.	7.	7.	7.	7.	7.
I4	16	1087	7.	7.	7.	6.	6.	6.	6.	6.	6.	6.
I4	16	1097	6.	6.	6.	5.	5.	5.	5.	5.	5.	5.
I4	16	1107	5.	5.	5.	4.	4.	4.	4.	4.	4.	4.
I4	16	1117	4.	4.	4.	3.	3.	3.	3.	3.	3.	3.
I4	16	1127	3.	3.	3.	2.	2.	2.	2.	2.	2.	2.
I4	16	1137	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.
I4	16	1147	1.	1.	1.	0.	0.	0.	0.	0.	0.	

P1	3	126	10.	10.	10.	10.	10.	10.	10.	9.	9.	9.
P1	3	136	9.	9.	9.	9.	9.	9.	9.	8.	8.	8.
P1	3	146	8.	8.	8.	8.	8.	8.	8.	7.	7.	7.
P1	3	156	7.	7.	7.	7.	7.	7.	7.	6.	6.	6.
P1	3	166	6.	6.	6.	6.	6.	6.	6.	5.	5.	5.
P1	3	176	5.	5.	5.	5.	5.	5.	5.			
P2	4	183	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.
P2	4	193	4.	3.	3.	3.	3.	3.	3.	3.	3.	3.
P2	4	203	3.	2.	2.	2.	2.	2.	2.	2.	2.	2.
P2	4	213	2.	1.	1.	1.	1.	1.	1.	1.	1.	1.
P2	4	223	1.	0.	0.	0.	0.	0.				
C1	6	272	7.	7.	7.	7.	7.	7.	7.	7.	7.	7.
C1	6	282	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.
C1	6	292	5.	5.	5.	5.	5.	5.	5.	5.	5.	5.
C1	6	302	4.	4.	4.							
C2	7	305	4.	4.	4.	4.	4.	4.	4.	3.	3.	3.
C2	7	315	3.	3.	3.	3.	3.	3.	3.	2.	2.	2.
C2	7	325	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.
C2	7	335	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.
C2	7	345	0.	0.								
I1	9	420	13.	13.	13.	13.	13.	13.	13.	13.	12.	12.
I1	9	430	12.	12.	12.	12.	12.	12.	12.	12.	11.	11.
I1	9	440	11.	11.	11.	11.	11.	11.	11.	11.	10.	10.
I1	9	450	10.	10.	10.	10.	10.	10.	10.	10.	9.	9.
I1	9	460	9.	9.	9.	9.	9.	9.	9.	9.	8.	8.
I1	9	470	8.	8.	8.	8.	8.	8.	8.	8.	7.	7.
I1	9	480	7.	7.	7.	7.	7.	7.	7.	7.	6.	6.
I1	9	490	6.	6.	6.	6.	6.	6.	6.	6.	5.	5.
I1	9	500	5.	5.	5.	5.	5.	5.	5.	5.	4.	4.
I1	9	510	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.
I1	9	520	3.	3.	3.	3.	3.	3.	3.	3.	2.	2.
I1	9	530	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.
I1	9	540	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.
I1	9	550	0.	0.	0.	0.						
BP	11	710	12.	12.	12.	11.	11.	11.	11.	11.	11.	11.
BP	11	720	11.	11.	11.	10.	10.	10.	10.	10.	10.	10.
BP	11	730	10.	10.	10.	9.	9.	9.	9.	9.	9.	9.
BP	11	740	9.	9.	9.	8.	8.	8.	8.	8.	8.	8.
BP	11	750	8.	8.	8.	7.	7.	7.	7.	7.	7.	7.
BP	11	760	7.	7.	7.	6.	6.	6.	6.	6.	6.	6.
BP	11	770	6.	6.	6.	5.	5.	5.	5.	5.	5.	5.
BP	11	780	5.	5.	5.	4.	4.	4.	4.	4.	4.	4.
BP	11	790	4.	4.	4.	3.	3.	3.	3.	3.	3.	3.
BP	11	800	3.	3.	3.	2.	2.	2.	2.	2.	2.	2.
BP	11	810	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.
BP	11	820	1.	1.	1.	0.	0.	0.	0.	0.	0.	
U1	13	879	12.	12.	12.	12.	12.	12.	12.	12.	11.	11.
U1	13	889	11.	11.	11.	11.	11.	11.	11.	11.	10.	10.
U1	13	899	10.	10.	10.	10.	10.	10.	10.	10.	9.	9.
U1	13	909	9.	9.	9.	9.	9.	9.	9.	9.	8.	8.

U1	13	919	8.	8.	8.	8.	8.	8.	8.	8.	7.	7.
U1	13	929	7.	7.	7.	7.	7.	7.	7.	7.	6.	6.
U1	13	939	6.	6.	6.	6.	6.	6.	6.	6.	5.	5.
U1	13	949	5.	5.	5.	5.	5.	5.	5.	5.	4.	4.
U1	13	959	4.	4.	4.	4.						
U2	15	1007	4.	4.	4.	4.	4.	3.	3.	3.	3.	3.
U2	15	1017	3.	3.	3.	3.	3.	2.	2.	2.	2.	2.
U2	15	1027	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.
U2	15	1037	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.
LF	14	963	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.
LF	14	973	3.	3.	3.	3.	3.	3.	3.	3.	3.	2.
LF	14	983	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.
LF	14	993	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.
LF	14	1003	0.	0.	0.	0.						

INTERMEDIATE REPORT

Flow LA-QUAL Model for Upper Terrebonne

m≥/s Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
B1	1	11	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
B1	1	21	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
B2	2	31	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
B2	2	41	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
B2	2	51	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
B2	2	61	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
B2	2	71	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
B2	2	81	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
B2	2	91	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
B2	2	101	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
B2	2	111	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
B2	2	121	0.7	0.7	0.7	0.7	0.7					
CH	5	229	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
CH	5	239	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
CH	5	249	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
CH	5	259	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
CH	5	269	1.3	1.3	1.3							
CW	8	347	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
CW	8	357	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6
CW	8	367	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
CW	8	377	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
CW	8	387	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
CW	8	397	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
CW	8	407	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
CW	8	417	1.6	1.6	1.6							
I2	10	554	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
I2	10	564	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
I2	10	574	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
I2	10	584	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
I2	10	594	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1

I2	10	604	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
I2	10	614	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
I2	10	624	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
I2	10	634	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
I2	10	644	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
I2	10	654	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
I2	10	664	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
I2	10	674	9.1	9.1	9.1	9.1	10.5	10.5	10.5	10.5	10.5	10.5
I2	10	684	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
I2	10	694	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
I2	10	704	10.5	10.5	10.5	10.5	10.5	10.5				
I3	12	829	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
I3	12	839	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
I3	12	849	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
I3	12	859	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
I3	12	869	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
I4	16	1047	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
I4	16	1057	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
I4	16	1067	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
I4	16	1077	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
I4	16	1087	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
I4	16	1097	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
I4	16	1107	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
I4	16	1117	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
I4	16	1127	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
I4	16	1137	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
I4	16	1147	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	
P1	3	126	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
P1	3	136	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
P1	3	146	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
P1	3	156	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
P1	3	166	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
P1	3	176	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
P2	4	183	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
P2	4	193	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
P2	4	203	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
P2	4	213	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
P2	4	223	0.2	0.2	0.2	0.2	0.3	0.3				
C1	6	272	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1	6	282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1	6	292	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1	6	302	0.0	0.0	0.0							
C2	7	305	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2	7	315	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2	7	325	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2	7	335	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2	7	345	0.0	0.0								
I1	9	420	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
I1	9	430	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
I1	9	440	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5

I1	9	450	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
I1	9	460	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
I1	9	470	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
I1	9	480	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
I1	9	490	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
I1	9	500	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
I1	9	510	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
I1	9	520	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
I1	9	530	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
I1	9	540	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
I1	9	550	7.6	7.6	7.6	7.6						
BP	11	710	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BP	11	720	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BP	11	730	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BP	11	740	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BP	11	750	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BP	11	760	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BP	11	770	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BP	11	780	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BP	11	790	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BP	11	800	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BP	11	810	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
BP	11	820	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
U1	13	879	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
U1	13	889	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
U1	13	899	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.9	4.9
U1	13	909	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
U1	13	919	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
U1	13	929	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
U1	13	939	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
U1	13	949	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
U1	13	959	4.9	4.9	4.9	4.9						
U2	15	1007	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
U2	15	1017	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
U2	15	1027	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
U2	15	1037	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
LF	14	963	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
LF	14	973	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
LF	14	983	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
LF	14	993	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
LF	14	1003	2.0	2.0	2.0	2.0						

INTERMEDIATE REPORT

Dispersion

m≤/s

LA-QUAL Model for Upper Terrebonne

Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B1	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B1	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

B2	2	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	121	0.0	0.0	0.0	0.0	0.0					
CH	5	229	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CH	5	239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CH	5	249	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CH	5	259	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CH	5	269	0.0	0.0	0.0							
CW	8	347	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	357	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	367	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	387	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	407	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	417	0.0	0.0	0.0							
I2	10	554	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	564	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	574	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	584	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	594	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	604	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	614	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	624	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	634	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	644	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	654	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	664	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	674	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	684	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	694	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	704	0.0	0.0	0.0	0.0	0.0	0.0				
I3	12	829	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I3	12	839	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I3	12	849	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I3	12	859	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I3	12	869	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I4	16	1047	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I4	16	1057	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I4	16	1067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I4	16	1077	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I4	16	1087	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I4	16	1097	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I4	16	1107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

I4	16	1117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I4	16	1127	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I4	16	1137	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I4	16	1147	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
P1	3	126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P1	3	136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P1	3	146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P1	3	156	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P1	3	166	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P1	3	176	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
P2	4	183	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P2	4	193	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P2	4	203	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P2	4	213	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P2	4	223	0.0	0.0	0.0	0.0	0.0	0.0				
C1	6	272	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1	6	282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1	6	292	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1	6	302	0.0	0.0	0.0							
C2	7	305	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2	7	315	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2	7	325	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2	7	335	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2	7	345	0.0	0.0								
I1	9	420	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	430	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	440	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	460	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	470	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	480	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	490	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	510	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	520	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	530	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	540	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I1	9	550	0.0	0.0	0.0	0.0						
BP	11	710	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BP	11	720	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BP	11	730	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BP	11	740	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BP	11	750	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BP	11	760	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BP	11	770	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BP	11	780	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BP	11	790	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BP	11	800	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BP	11	810	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BP	11	820	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

U1	13	879	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U1	13	889	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U1	13	899	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U1	13	909	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U1	13	919	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U1	13	929	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U1	13	939	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U1	13	949	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U1	13	959	0.0	0.0	0.0	0.0						
U2	15	1007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U2	15	1017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U2	15	1027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U2	15	1037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LF	14	963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LF	14	973	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LF	14	983	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LF	14	993	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LF	14	1003	0.0	0.0	0.0	0.0						

INTERMEDIATE REPORT

Advective Velocity — LA-QUAL Model for Upper Terrebonne

m/s — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
B1	1	11	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
B1	1	21	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
B2	2	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B2	2	91	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
B2	2	101	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
B2	2	111	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
B2	2	121	0.1	0.1	0.1	0.1	0.1					
CH	5	229	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CH	5	239	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CH	5	249	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CH	5	259	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CH	5	269	0.0	0.0	0.0							
CW	8	347	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	357	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	367	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	387	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	407	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CW	8	417	0.0	0.0	0.0							
I2	10	554	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

I2	10	564	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	574	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	584	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	594	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	604	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	614	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	624	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	634	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	644	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	654	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	664	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	674	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	684	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	694	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I2	10	704	0.0	0.0	0.0	0.0	0.0	0.0				
I3	12	829	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I3	12	839	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I3	12	849	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I3	12	859	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I3	12	869	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I4	16	1047	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
I4	16	1057	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
I4	16	1067	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
I4	16	1077	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
I4	16	1087	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
I4	16	1097	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
I4	16	1107	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
I4	16	1117	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
I4	16	1127	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
I4	16	1137	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
I4	16	1147	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
P1	3	126	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
P1	3	136	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
P1	3	146	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
P1	3	156	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
P1	3	166	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
P1	3	176	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
P2	4	183	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P2	4	193	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P2	4	203	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P2	4	213	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P2	4	223	0.0	0.1	0.1	0.1	0.1	0.1				
C1	6	272	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1	6	282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1	6	292	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1	6	302	0.0	0.0	0.0							
C2	7	305	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2	7	315	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2	7	325	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2	7	335	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

```
C2   7  345      0.0     0.0
I1   9  420      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  430      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  440      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  450      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  460      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  470      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  480      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  490      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  500      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  510      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  520      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  530      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  540      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
I1   9  550      0.0     0.0     0.0     0.0
BP  11  710      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
BP  11  720      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
BP  11  730      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
BP  11  740      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
BP  11  750      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
BP  11  760      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
BP  11  770      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
BP  11  780      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
BP  11  790      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
BP  11  800      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
BP  11  810      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
BP  11  820      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
U1  13  879      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
U1  13  889      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
U1  13  899      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.1     0.1
U1  13  909      0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1
U1  13  919      0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1
U1  13  929      0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1
U1  13  939      0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1
U1  13  949      0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1
U1  13  959      0.1     0.1     0.1     0.1
U2  15 1007      0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1
U2  15 1017      0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1
U2  15 1027      0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1
U2  15 1037      0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1
LF  14  963      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
LF  14  973      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
LF  14  983      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
LF  14  993      0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
LF  14 1003      0.0     0.0     0.0     0.0
INTERMEDIATE REPORT
Depth                                   LA-QUAL Model for Upper Terrebonne
  m                                     Calibration Simulation for Upper Terrebonne model
ID  RCH  ELEM      +0      +1      +2      +3      +4      +5      +6      +7      +8      +9
```

B1	1	1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
B1	1	11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
B1	1	21	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
B2	2	31	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B2	2	41	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B2	2	51	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B2	2	61	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B2	2	71	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B2	2	81	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B2	2	91	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B2	2	101	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B2	2	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B2	2	121	1.0	1.0	1.0	1.0	1.0					
CH	5	229	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
CH	5	239	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
CH	5	249	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
CH	5	259	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
CH	5	269	2.4	2.4	2.4							
CW	8	347	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
CW	8	357	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
CW	8	367	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
CW	8	377	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
CW	8	387	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
CW	8	397	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
CW	8	407	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
CW	8	417	2.8	2.8	2.8							
I2	10	554	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	564	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	574	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	584	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	594	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	604	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	614	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	624	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	634	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	644	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	654	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	664	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	674	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	684	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	694	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I2	10	704	3.0	3.0	3.0	3.0	3.0	3.0				
I3	12	829	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
I3	12	839	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
I3	12	849	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
I3	12	859	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
I3	12	869	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
I4	16	1047	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
I4	16	1057	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
I4	16	1067	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5

I4	16	1077	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
I4	16	1087	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
I4	16	1097	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
I4	16	1107	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
I4	16	1117	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
I4	16	1127	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
I4	16	1137	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
I4	16	1147	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
P1	3	126	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
P1	3	136	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
P1	3	146	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
P1	3	156	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
P1	3	166	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
P1	3	176	0.3	0.3	0.3	0.3	0.3	0.3	0.3			
P2	4	183	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
P2	4	193	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
P2	4	203	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
P2	4	213	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
P2	4	223	0.6	0.6	0.6	0.6	0.6	0.6				
C1	6	272	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
C1	6	282	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
C1	6	292	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
C1	6	302	0.1	0.1	0.1							
C2	7	305	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
C2	7	315	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
C2	7	325	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
C2	7	335	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
C2	7	345	0.3	0.3								
I1	9	420	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	430	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	440	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	450	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	460	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	470	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	480	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	490	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	500	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	510	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	520	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	530	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	540	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
I1	9	550	3.0	3.0	3.0	3.0						
BP	11	710	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BP	11	720	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BP	11	730	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BP	11	740	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BP	11	750	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BP	11	760	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BP	11	770	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BP	11	780	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

BP	11	790	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BP	11	800	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BP	11	810	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
BP	11	820	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
U1	13	879	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
U1	13	889	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
U1	13	899	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
U1	13	909	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
U1	13	919	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
U1	13	929	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
U1	13	939	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
U1	13	949	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
U1	13	959	1.1	1.1	1.1	1.1						
U2	15	1007	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
U2	15	1017	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
U2	15	1027	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
U2	15	1037	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
LF	14	963	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
LF	14	973	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
LF	14	983	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
LF	14	993	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
LF	14	1003	0.8	0.8	0.8	0.8						

INTERMEDIATE REPORT

Width — LA-QUAL Model for Upper Terrebonne

m — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B1	1	11	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B1	1	21	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B2	2	31	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	41	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	51	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	61	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	71	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	81	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	91	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	101	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	111	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	121	10.0	10.0	10.0	10.0	10.0					
CH	5	229	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
CH	5	239	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
CH	5	249	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
CH	5	259	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
CH	5	269	34.0	34.0	34.0							
CW	8	347	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
CW	8	357	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
CW	8	367	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
CW	8	377	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
CW	8	387	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0

CW	8	397	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
CW	8	407	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
CW	8	417	47.0	47.0	47.0							
I2	10	554	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	564	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	574	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	584	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	594	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	604	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	614	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	624	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	634	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	644	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	654	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	664	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	674	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	684	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	694	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I2	10	704	76.0	76.0	76.0	76.0	76.0	76.0				
I3	12	829	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
I3	12	839	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
I3	12	849	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
I3	12	859	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
I3	12	869	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
I4	16	1047	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
I4	16	1057	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
I4	16	1067	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
I4	16	1077	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
I4	16	1087	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
I4	16	1097	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
I4	16	1107	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
I4	16	1117	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
I4	16	1127	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
I4	16	1137	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
I4	16	1147	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
P1	3	126	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
P1	3	136	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
P1	3	146	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
P1	3	156	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
P1	3	166	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
P1	3	176	4.0	4.0	4.0	4.0	4.0	4.0	4.0			
P2	4	183	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
P2	4	193	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
P2	4	203	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
P2	4	213	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
P2	4	223	8.0	8.0	8.0	8.0	8.0	8.0				
C1	6	272	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
C1	6	282	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
C1	6	292	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
C1	6	302	2.0	2.0	2.0							

C2	7	305	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
C2	7	315	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
C2	7	325	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
C2	7	335	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
C2	7	345	5.0	5.0								
I1	9	420	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	430	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	440	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	450	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	460	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	470	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	480	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	490	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	500	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	510	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	520	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	530	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	540	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
I1	9	550	76.0	76.0	76.0	76.0						
BP	11	710	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
BP	11	720	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
BP	11	730	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
BP	11	740	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
BP	11	750	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
BP	11	760	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
BP	11	770	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
BP	11	780	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
BP	11	790	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
BP	11	800	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
BP	11	810	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
BP	11	820	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	
U1	13	879	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
U1	13	889	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
U1	13	899	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
U1	13	909	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
U1	13	919	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
U1	13	929	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
U1	13	939	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
U1	13	949	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
U1	13	959	88.0	88.0	88.0	88.0						
U2	15	1007	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
U2	15	1017	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
U2	15	1027	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
U2	15	1037	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
LF	14	963	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
LF	14	973	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
LF	14	983	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
LF	14	993	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
LF	14	1003	64.0	64.0	64.0	64.0						

Cross-Sectional Area
m≤

LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
B1	1	11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
B1	1	21	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
B2	2	31	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	41	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	51	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	61	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	71	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	81	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	91	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	101	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	111	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
B2	2	121	10.0	10.0	10.0	10.0	10.0					
CH	5	229	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
CH	5	239	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
CH	5	249	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
CH	5	259	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
CH	5	269	81.6	81.6	81.6							
CW	8	347	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6
CW	8	357	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6
CW	8	367	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6
CW	8	377	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6
CW	8	387	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6
CW	8	397	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6
CW	8	407	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6
CW	8	417	131.6	131.6	131.6							
I2	10	554	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	564	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	574	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	584	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	594	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	604	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	614	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	624	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	634	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	644	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	654	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	664	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	674	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	684	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	694	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I2	10	704	228.0	228.0	228.0	228.0	228.0	228.0				
I3	12	829	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
I3	12	839	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
I3	12	849	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
I3	12	859	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0

I3	12	869	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
I4	16	1047	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
I4	16	1057	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
I4	16	1067	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
I4	16	1077	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
I4	16	1087	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
I4	16	1097	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
I4	16	1107	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
I4	16	1117	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
I4	16	1127	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
I4	16	1137	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
I4	16	1147	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	
P1	3	126	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
P1	3	136	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
P1	3	146	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
P1	3	156	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
P1	3	166	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
P1	3	176	1.2	1.2	1.2	1.2	1.2	1.2	1.2			
P2	4	183	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
P2	4	193	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
P2	4	203	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
P2	4	213	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
P2	4	223	4.8	4.8	4.8	4.8	4.8	4.8				
C1	6	272	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
C1	6	282	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
C1	6	292	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
C1	6	302	0.2	0.2	0.2							
C2	7	305	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
C2	7	315	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
C2	7	325	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
C2	7	335	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
C2	7	345	1.5	1.5								
I1	9	420	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	430	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	440	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	450	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	460	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	470	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	480	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	490	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	500	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	510	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	520	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	530	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	540	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
I1	9	550	228.0	228.0	228.0	228.0						
BP	11	710	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
BP	11	720	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
BP	11	730	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
BP	11	740	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0

BP	11	750	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
BP	11	760	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
BP	11	770	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
BP	11	780	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
BP	11	790	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
BP	11	800	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
BP	11	810	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
BP	11	820	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	
U1	13	879	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
U1	13	889	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
U1	13	899	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
U1	13	909	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
U1	13	919	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
U1	13	929	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
U1	13	939	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
U1	13	949	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
U1	13	959	96.8	96.8	96.8	96.8						
U2	15	1007	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
U2	15	1017	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
U2	15	1027	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
U2	15	1037	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
LF	14	963	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
LF	14	973	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
LF	14	983	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
LF	14	993	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
LF	14	1003	51.2	51.2	51.2	51.2						

INTERMEDIATE REPORT

Reaeration Rate per day — LA-QUAL Model for Upper Terrebonne — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	10.952	10.981	11.011	11.041	11.071	11.100	11.130	11.160	11.190	11.220
B1	1	11	11.250	11.280	11.309	11.340	11.370	11.400	11.429	11.459	11.490	11.520
B1	1	21	11.550	11.580	11.610	11.640	11.670	11.700	11.731	11.761	11.791	11.822
B2	2	31	0.828	0.828	0.828	0.828	0.828	0.828	0.828	0.828	0.828	0.828
B2	2	41	0.828	0.828	0.828	0.828	0.828	0.828	0.828	0.828	0.828	0.828
B2	2	51	0.828	0.828	0.828	0.828	0.828	0.828	0.828	0.828	0.828	0.828
B2	2	61	0.828	0.828	0.828	0.828	0.828	0.828	0.835	0.843	0.851	0.858
B2	2	71	0.866	0.874	0.881	0.889	0.896	0.904	0.911	0.918	0.925	0.933
B2	2	81	0.940	0.947	0.954	0.961	0.968	0.974	0.981	0.988	0.995	1.001
B2	2	91	1.008	1.015	1.021	1.028	1.034	1.040	1.047	1.053	1.059	1.066
B2	2	101	1.072	1.078	1.084	1.090	1.096	1.103	1.109	1.115	1.120	1.126
B2	2	111	1.132	1.138	1.144	1.150	1.156	1.161	1.167	1.173	1.178	1.184
B2	2	121	1.190	1.195	1.201	1.206	1.212					
CH	5	229	0.345	0.345	0.346	0.346	0.346	0.347	0.347	0.347	0.348	0.348
CH	5	239	0.348	0.349	0.349	0.349	0.350	0.350	0.350	0.351	0.351	0.351
CH	5	249	0.352	0.352	0.352	0.353	0.353	0.353	0.354	0.354	0.354	0.355
CH	5	259	0.355	0.355	0.355	0.356	0.356	0.356	0.357	0.357	0.357	0.358
CH	5	269	0.358	0.358	0.359							
CW	8	347	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307

CW	8	357	0.307	0.307	0.307	0.307	0.307	0.306	0.306	0.306	0.306	0.306
CW	8	367	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306
CW	8	377	0.305	0.305	0.305	0.305	0.305	0.305	0.305	0.305	0.305	0.305
CW	8	387	0.305	0.305	0.305	0.305	0.305	0.305	0.304	0.304	0.304	0.304
CW	8	397	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304
CW	8	407	0.304	0.304	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303
CW	8	417	0.303	0.303	0.303							
I2	10	554	0.283	0.283	0.283	0.282	0.282	0.282	0.282	0.282	0.282	0.282
I2	10	564	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282
I2	10	574	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282
I2	10	584	0.282	0.282	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281
I2	10	594	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281
I2	10	604	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281
I2	10	614	0.281	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280
I2	10	624	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280
I2	10	634	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280
I2	10	644	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279
I2	10	654	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279
I2	10	664	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279	0.279
I2	10	674	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
I2	10	684	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
I2	10	694	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.277
I2	10	704	0.277	0.277	0.277	0.277	0.277	0.277				
I3	12	829	0.260	0.260	0.260	0.260	0.260	0.260	0.260	0.261	0.261	0.261
I3	12	839	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261
I3	12	849	0.261	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262
I3	12	859	0.262	0.262	0.262	0.262	0.262	0.263	0.263	0.263	0.263	0.263
I3	12	869	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.264	0.264
I4	16	1047	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
I4	16	1057	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
I4	16	1067	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
I4	16	1077	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
I4	16	1087	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
I4	16	1097	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
I4	16	1107	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
I4	16	1117	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
I4	16	1127	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
I4	16	1137	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
I4	16	1147	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	
P1	3	126	6.402	6.402	6.402	6.402	6.402	6.402	6.402	6.402	6.402	6.402
P1	3	136	6.402	6.402	6.402	6.402	6.402	6.402	6.402	6.402	6.402	6.402
P1	3	146	6.402	6.402	6.408	6.408	6.408	6.410	6.410	6.410	6.410	6.410
P1	3	156	6.410	6.410	6.423	6.423	6.423	6.423	6.423	6.423	6.427	6.427
P1	3	166	6.427	6.427	6.427	6.427	6.427	6.427	6.427	6.427	6.427	6.427
P1	3	176	6.427	6.427	6.427	6.427	6.427	6.427	6.427			
P2	4	183	1.332	1.333	1.334	1.335	1.336	1.353	1.383	1.413	1.443	1.471
P2	4	193	1.500	1.528	1.555	1.583	1.609	1.636	1.662	1.688	1.713	1.738
P2	4	203	1.763	1.787	1.812	1.836	1.860	1.883	1.907	1.930	1.953	1.975
P2	4	213	1.998	2.020	2.043	2.065	2.086	2.108	2.130	2.151	2.172	2.193
P2	4	223	2.214	2.235	2.256	2.276	2.296	2.317				

C1	6	272	7.899	7.910	7.938	8.228	8.511	8.786	9.054	9.316	9.572	9.822
C1	6	282	10.068	10.310	10.547	10.780	11.009	11.235	11.458	11.569	11.585	11.602
C1	6	292	11.619	11.636	11.653	11.670	11.686	11.703	11.720	11.737	11.754	11.771
C1	6	302	11.788	11.805	11.822							
C2	7	305	2.761	2.764	2.766	2.769	2.772	2.774	2.777	2.780	2.782	2.785
C2	7	315	2.787	2.790	2.793	2.795	2.798	2.801	2.803	2.806	2.809	2.811
C2	7	325	2.814	2.817	2.819	2.822	2.825	2.827	2.830	2.833	2.835	2.838
C2	7	335	2.841	2.843	2.846	2.849	2.851	2.854	2.857	2.859	2.862	2.865
C2	7	345	2.867	2.870								
I1	9	420	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280
I1	9	430	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280
I1	9	440	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280
I1	9	450	0.280	0.280	0.280	0.280	0.280	0.280	0.281	0.281	0.281	0.281
I1	9	460	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281
I1	9	470	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281
I1	9	480	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281
I1	9	490	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281	0.281
I1	9	500	0.281	0.281	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282
I1	9	510	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282
I1	9	520	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282
I1	9	530	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282
I1	9	540	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.283	0.283
I1	9	550	0.283	0.283	0.283	0.283						
BP	11	710	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754
BP	11	720	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754
BP	11	730	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754
BP	11	740	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754
BP	11	750	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755
BP	11	760	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755
BP	11	770	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755
BP	11	780	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755
BP	11	790	0.755	0.755	0.755	0.755	0.755	0.756	0.756	0.756	0.756	0.756
BP	11	800	0.756	0.756	0.756	0.756	0.756	0.756	0.756	0.756	0.756	0.756
BP	11	810	0.756	0.756	0.756	0.756	0.756	0.756	0.756	0.756	0.756	0.756
BP	11	820	0.756	0.756	0.756	0.756	0.756	0.756	0.756	0.756	0.756	
U1	13	879	0.849	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.848	0.847
U1	13	889	0.847	0.847	0.847	0.847	0.847	0.847	0.847	0.846	0.846	0.846
U1	13	899	0.846	0.846	0.846	0.846	0.846	0.845	0.845	0.845	0.943	0.943
U1	13	909	0.943	0.943	0.943	0.943	0.942	0.942	0.942	0.942	0.942	0.942
U1	13	919	0.942	0.942	0.941	0.941	0.941	0.941	0.941	0.941	0.941	0.940
U1	13	929	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.939	0.939	0.939
U1	13	939	0.939	0.939	0.939	0.939	0.938	0.938	0.938	0.938	0.938	0.938
U1	13	949	0.938	0.938	0.937	0.937	0.937	0.937	0.937	0.937	0.937	0.936
U1	13	959	0.936	0.936	0.936	0.936						
U2	15	1007	0.945	0.945	0.944	0.944	0.944	0.943	0.943	0.943	0.943	0.942
U2	15	1017	0.942	0.942	0.941	0.941	0.941	0.941	0.940	0.940	0.940	0.939
U2	15	1027	0.939	0.939	0.939	0.938	0.938	0.938	0.937	0.937	0.937	0.937
U2	15	1037	0.936	0.936	0.936	0.935	0.935	0.935	0.935	0.934	0.934	0.934
LF	14	963	1.308	1.308	1.308	1.308	1.309	1.309	1.309	1.309	1.309	1.309
LF	14	973	1.309	1.310	1.310	1.310	1.310	1.310	1.310	1.311	1.311	1.311

LF	14	983	1.311	1.311	1.311	1.311	1.312	1.312	1.312	1.312	1.312	1.312
LF	14	993	1.313	1.313	1.313	1.313	1.313	1.313	1.313	1.314	1.314	1.314
LF	14	1003	1.314	1.314	1.314	1.315						

INTERMEDIATE REPORT

BOD Decay Rate per day — LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17
B1	1	11	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
B1	1	21	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20
B2	2	31	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
B2	2	41	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
B2	2	51	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
B2	2	61	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
B2	2	71	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
B2	2	81	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
B2	2	91	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
B2	2	101	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
B2	2	111	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
B2	2	121	0.20	0.20	0.20	0.20	0.20					
CH	5	229	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
CH	5	239	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
CH	5	249	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
CH	5	259	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
CH	5	269	0.18	0.18	0.18							
CW	8	347	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
CW	8	357	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
CW	8	367	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
CW	8	377	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
CW	8	387	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
CW	8	397	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
CW	8	407	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
CW	8	417	0.18	0.18	0.18							
I2	10	554	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I2	10	564	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I2	10	574	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I2	10	584	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I2	10	594	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I2	10	604	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I2	10	614	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20
I2	10	624	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
I2	10	634	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
I2	10	644	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
I2	10	654	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
I2	10	664	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
I2	10	674	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
I2	10	684	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
I2	10	694	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
I2	10	704	0.20	0.20	0.20	0.20	0.20	0.20				

I3	12	829	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
I3	12	839	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
I3	12	849	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
I3	12	859	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32
I3	12	869	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
I4	16	1047	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
I4	16	1057	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
I4	16	1067	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
I4	16	1077	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
I4	16	1087	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
I4	16	1097	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
I4	16	1107	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
I4	16	1117	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
I4	16	1127	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
I4	16	1137	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
I4	16	1147	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	
P1	3	126	0.08	0.12	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
P1	3	136	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
P1	3	146	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
P1	3	156	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
P1	3	166	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
P1	3	176	0.14	0.14	0.14	0.14	0.14	0.14	0.14			
P2	4	183	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
P2	4	193	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
P2	4	203	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15
P2	4	213	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
P2	4	223	0.15	0.15	0.15	0.15	0.15	0.15				
C1	6	272	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
C1	6	282	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19
C1	6	292	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
C1	6	302	0.20	0.20	0.20							
C2	7	305	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
C2	7	315	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21
C2	7	325	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
C2	7	335	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22
C2	7	345	0.22	0.22								
I1	9	420	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
I1	9	430	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
I1	9	440	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21
I1	9	450	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I1	9	460	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I1	9	470	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I1	9	480	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I1	9	490	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I1	9	500	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I1	9	510	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I1	9	520	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I1	9	530	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I1	9	540	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
I1	9	550	0.21	0.21	0.21	0.21						

BP	11	710	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
BP	11	720	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
BP	11	730	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
BP	11	740	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
BP	11	750	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
BP	11	760	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
BP	11	770	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
BP	11	780	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
BP	11	790	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
BP	11	800	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
BP	11	810	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
BP	11	820	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	
U1	13	879	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
U1	13	889	0.51	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.45	0.45
U1	13	899	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.50	0.50
U1	13	909	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
U1	13	919	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
U1	13	929	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
U1	13	939	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
U1	13	949	0.50	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
U1	13	959	0.49	0.49	0.49	0.49						
U2	15	1007	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
U2	15	1017	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.48
U2	15	1027	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
U2	15	1037	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
LF	14	963	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LF	14	973	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LF	14	983	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LF	14	993	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
LF	14	1003	0.49	0.49	0.49	0.49						

INTERMEDIATE REPORT

BOD Settling Rate per day

LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	2	121	0.00	0.00	0.00	0.00	0.00					
CH	5	229	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CH	5	239	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

CH	5	249	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CH	5	259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CH	5	269	0.00	0.00	0.00							
CW	8	347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	397	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	407	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CW	8	417	0.00	0.00	0.00							
I2	10	554	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	564	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	574	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	604	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	614	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	624	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	634	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	644	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	654	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	664	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	674	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	684	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2	10	704	0.00	0.00	0.00	0.00	0.00	0.00				
I3	12	829	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I3	12	839	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I3	12	849	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I3	12	859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I3	12	869	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1047	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1057	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1067	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1077	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1087	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1097	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1137	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I4	16	1147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
P1	3	126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1	3	176	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
P2	4	183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P2	4	193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2	4	203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2	4	213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2	4	223	0.00	0.00	0.00	0.00	0.00	0.00				
C1	6	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1	6	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1	6	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1	6	302	0.00	0.00	0.00							
C2	7	305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2	7	315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2	7	325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2	7	335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2	7	345	0.00	0.00								
I1	9	420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	430	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	510	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	530	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I1	9	550	0.00	0.00	0.00	0.00						
BP	11	710	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	720	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	740	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	760	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	770	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	780	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	790	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	810	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BP	11	820	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
U1	13	879	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	889	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	899	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	909	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	919	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	929	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	939	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	949	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U1	13	959	0.00	0.00	0.00	0.00						
U2	15	1007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U2	15	1017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

U2	15	1027	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U2	15	1037	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	963	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	983	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LF	14	1003	0.00	0.00	0.00	0.00						

INTERMEDIATE REPORT

Ammonia Decay Rate per day — LA-QUAL Model for Upper Terrebonne Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.30
B1	1	11	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.34	0.34	0.35
B1	1	21	0.35	0.35	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39
B2	2	31	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.38	0.38
B2	2	41	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
B2	2	51	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
B2	2	61	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
B2	2	71	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
B2	2	81	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
B2	2	91	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
B2	2	101	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
B2	2	111	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
B2	2	121	0.37	0.37	0.37	0.37	0.37					
CH	5	229	0.36	0.36	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33
CH	5	239	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31
CH	5	249	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33
CH	5	259	0.34	0.34	0.35	0.35	0.36	0.37	0.37	0.38	0.39	0.39
CH	5	269	0.40	0.40	0.41							
CW	8	347	0.42	0.43	0.44	0.45	0.45	0.46	0.46	0.47	0.47	0.47
CW	8	357	0.47	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
CW	8	367	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
CW	8	377	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
CW	8	387	0.47	0.47	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45
CW	8	397	0.45	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.43
CW	8	407	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.40
CW	8	417	0.40	0.39	0.39							
I2	10	554	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.41	0.41
I2	10	564	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
I2	10	574	0.41	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
I2	10	584	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.39
I2	10	594	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
I2	10	604	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
I2	10	614	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37
I2	10	624	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
I2	10	634	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36
I2	10	644	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
I2	10	654	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35
I2	10	664	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35

I2	10	674	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34
I2	10	684	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33
I2	10	694	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
I2	10	704	0.33	0.33	0.33	0.33	0.33	0.33				
I3	12	829	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
I3	12	839	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
I3	12	849	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
I3	12	859	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
I3	12	869	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
I4	16	1047	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
I4	16	1057	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
I4	16	1067	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
I4	16	1077	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
I4	16	1087	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
I4	16	1097	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
I4	16	1107	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
I4	16	1117	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
I4	16	1127	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
I4	16	1137	0.35	0.35	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36
I4	16	1147	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	
P1	3	126	0.03	0.15	0.25	0.27	0.28	0.29	0.30	0.31	0.31	0.31
P1	3	136	0.32	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33
P1	3	146	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
P1	3	156	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
P1	3	166	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
P1	3	176	0.34	0.34	0.34	0.34	0.34	0.34	0.34			
P2	4	183	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32
P2	4	193	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
P2	4	203	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.34
P2	4	213	0.34	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35
P2	4	223	0.35	0.35	0.35	0.36	0.36	0.36				
C1	6	272	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33
C1	6	282	0.33	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.36
C1	6	292	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.38
C1	6	302	0.38	0.38	0.38							
C2	7	305	0.36	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.37	0.37
C2	7	315	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.40	0.40	0.40
C2	7	325	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.43	0.43
C2	7	335	0.43	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.46
C2	7	345	0.46	0.46								
I1	9	420	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
I1	9	430	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
I1	9	440	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
I1	9	450	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
I1	9	460	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
I1	9	470	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
I1	9	480	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
I1	9	490	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
I1	9	500	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
I1	9	510	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43

I1	9	520	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
I1	9	530	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
I1	9	540	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
I1	9	550	0.43	0.43	0.43	0.43						
BP	11	710	0.37	0.37	0.37	0.38	0.38	0.39	0.39	0.39	0.39	0.40
BP	11	720	0.40	0.40	0.40	0.40	0.40	0.40	0.41	0.41	0.41	0.41
BP	11	730	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
BP	11	740	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
BP	11	750	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
BP	11	760	0.41	0.41	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
BP	11	770	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39
BP	11	780	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38
BP	11	790	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37
BP	11	800	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36
BP	11	810	0.36	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34
BP	11	820	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.31	
U1	13	879	0.40	0.40	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35
U1	13	889	0.34	0.34	0.33	0.31	0.28	0.26	0.24	0.23	0.22	0.22
U1	13	899	0.21	0.21	0.21	0.20	0.20	0.20	0.21	0.21	0.36	0.36
U1	13	909	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35
U1	13	919	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
U1	13	929	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.36
U1	13	939	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37
U1	13	949	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38
U1	13	959	0.38	0.38	0.38	0.38						
U2	15	1007	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
U2	15	1017	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
U2	15	1027	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
U2	15	1037	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37
LF	14	963	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.40
LF	14	973	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.39
LF	14	983	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
LF	14	993	0.39	0.39	0.39	0.39	0.39	0.39	0.40	0.40	0.40	0.40
LF	14	1003	0.40	0.40	0.40	0.40						

INTERMEDIATE REPORT

Sediment Oxygen Demand — LA-QUAL Model for Upper Terrebonne

g/m≤/d — Calibration Simulation for Upper Terrebonne model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
B1	1	1	0.94	0.95	0.96	0.97	0.98	0.99	1.00	1.01	1.02	1.03
B1	1	11	1.04	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12
B1	1	21	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23
B2	2	31	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
B2	2	41	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
B2	2	51	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
B2	2	61	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
B2	2	71	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
B2	2	81	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
B2	2	91	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
B2	2	101	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23

B2	2	111	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
B2	2	121	1.23	1.23	1.23	1.23	1.23					
CH	5	229	5.31	5.32	5.34	5.36	5.38	5.40	5.41	5.43	5.45	5.47
CH	5	239	5.49	5.51	5.52	5.54	5.56	5.58	5.60	5.62	5.64	5.66
CH	5	249	5.68	5.69	5.71	5.73	5.75	5.77	5.79	5.81	5.83	5.85
CH	5	259	5.87	5.89	5.91	5.93	5.95	5.97	5.99	6.01	6.03	6.05
CH	5	269	6.07	6.09	6.11							
CW	8	347	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02
CW	8	357	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.01
CW	8	367	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.99
CW	8	377	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.97
CW	8	387	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96
CW	8	397	1.96	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.94
CW	8	407	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.93	1.93	1.93
CW	8	417	1.93	1.93	1.93							
I2	10	554	2.50	2.50	2.50	2.50	2.50	2.50	2.49	2.49	2.49	2.49
I2	10	564	2.49	2.49	2.49	2.49	2.49	2.48	2.48	2.48	2.48	2.48
I2	10	574	2.48	2.48	2.48	2.48	2.47	2.47	2.47	2.47	2.47	2.47
I2	10	584	2.47	2.47	2.47	2.47	2.46	2.46	2.46	2.46	2.46	2.46
I2	10	594	2.46	2.46	2.46	2.45	2.45	2.45	2.45	2.45	2.45	2.45
I2	10	604	2.45	2.45	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44
I2	10	614	2.44	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43
I2	10	624	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42
I2	10	634	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.40
I2	10	644	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.39	2.39
I2	10	654	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.38	2.38
I2	10	664	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.37	2.37	2.37
I2	10	674	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.36	2.36	2.36
I2	10	684	2.36	2.36	2.36	2.36	2.36	2.36	2.35	2.35	2.35	2.35
I2	10	694	2.35	2.35	2.35	2.35	2.35	2.35	2.34	2.34	2.34	2.34
I2	10	704	2.34	2.34	2.34	2.34	2.34	2.34				
I3	12	829	1.26	1.26	1.26	1.26	1.26	1.26	1.27	1.27	1.27	1.27
I3	12	839	1.27	1.27	1.27	1.28	1.28	1.28	1.28	1.28	1.28	1.28
I3	12	849	1.28	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.30
I3	12	859	1.30	1.30	1.30	1.30	1.30	1.30	1.31	1.31	1.31	1.31
I3	12	869	1.31	1.31	1.31	1.31	1.32	1.32	1.32	1.32	1.32	1.32
I4	16	1047	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
I4	16	1057	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
I4	16	1067	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
I4	16	1077	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
I4	16	1087	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
I4	16	1097	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
I4	16	1107	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
I4	16	1117	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
I4	16	1127	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
I4	16	1137	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
I4	16	1147	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	
P1	3	126	0.86	1.37	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
P1	3	136	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
P1	3	146	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55

P1	3	156	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
P1	3	166	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
P1	3	176	1.55	1.55	1.55	1.55	1.55	1.55	1.55			
P2	4	183	1.40	1.40	1.41	1.41	1.42	1.42	1.43	1.43	1.43	1.44
P2	4	193	1.44	1.45	1.45	1.45	1.46	1.46	1.47	1.47	1.47	1.48
P2	4	203	1.48	1.49	1.49	1.49	1.50	1.50	1.51	1.51	1.51	1.52
P2	4	213	1.52	1.53	1.53	1.54	1.54	1.54	1.55	1.55	1.56	1.56
P2	4	223	1.56	1.57	1.57	1.58	1.58	1.59				
C1	6	272	1.94	1.95	1.96	1.97	1.98	1.99	2.00	2.01	2.02	2.04
C1	6	282	2.05	2.06	2.07	2.08	2.09	2.10	2.11	2.12	2.13	2.14
C1	6	292	2.15	2.17	2.18	2.19	2.20	2.21	2.22	2.23	2.24	2.26
C1	6	302	2.27	2.28	2.29							
C2	7	305	2.30	2.31	2.32	2.32	2.33	2.34	2.35	2.36	2.36	2.37
C2	7	315	2.38	2.39	2.40	2.40	2.41	2.42	2.43	2.44	2.45	2.45
C2	7	325	2.46	2.47	2.48	2.49	2.50	2.51	2.51	2.52	2.53	2.54
C2	7	335	2.55	2.56	2.57	2.58	2.59	2.59	2.60	2.61	2.62	2.63
C2	7	345	2.64	2.65								
I1	9	420	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
I1	9	430	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
I1	9	440	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
I1	9	450	0.93	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
I1	9	460	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
I1	9	470	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
I1	9	480	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.95	0.95
I1	9	490	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
I1	9	500	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
I1	9	510	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
I1	9	520	0.95	0.95	0.95	0.95	0.95	0.95	0.96	0.96	0.96	0.96
I1	9	530	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
I1	9	540	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
I1	9	550	0.96	0.96	0.96	0.96						
BP	11	710	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
BP	11	720	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
BP	11	730	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
BP	11	740	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
BP	11	750	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
BP	11	760	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
BP	11	770	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
BP	11	780	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
BP	11	790	0.89	0.89	0.89	0.89	0.89	0.89	0.90	0.90	0.90	0.90
BP	11	800	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
BP	11	810	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
BP	11	820	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
U1	13	879	3.30	3.30	3.30	3.29	3.29	3.29	3.29	3.29	3.29	3.28
U1	13	889	3.28	3.28	3.27	3.18	3.10	3.04	2.99	2.94	2.91	2.89
U1	13	899	2.87	2.86	2.85	2.84	2.84	2.84	2.84	2.85	3.25	3.25
U1	13	909	3.25	3.25	3.24	3.24	3.24	3.24	3.24	3.24	3.23	3.23
U1	13	919	3.23	3.23	3.23	3.23	3.22	3.22	3.22	3.22	3.22	3.22
U1	13	929	3.21	3.21	3.21	3.21	3.21	3.21	3.20	3.20	3.20	3.20
U1	13	939	3.20	3.20	3.19	3.19	3.19	3.19	3.19	3.19	3.18	3.18

U1	13	949	3.18	3.18	3.18	3.18	3.17	3.17	3.17	3.17	3.17	3.17
U1	13	959	3.16	3.16	3.16	3.16						
U2	15	1007	3.16	3.15	3.15	3.14	3.14	3.14	3.13	3.13	3.13	3.12
U2	15	1017	3.12	3.12	3.11	3.11	3.11	3.10	3.10	3.10	3.09	3.09
U2	15	1027	3.09	3.08	3.08	3.08	3.07	3.07	3.07	3.06	3.06	3.06
U2	15	1037	3.05	3.05	3.05	3.04	3.04	3.04	3.03	3.03	3.03	3.02
LF	14	963	2.52	2.52	2.52	2.52	2.52	2.52	2.53	2.53	2.53	2.53
LF	14	973	2.53	2.53	2.53	2.53	2.53	2.54	2.54	2.54	2.54	2.54
LF	14	983	2.54	2.54	2.54	2.54	2.55	2.55	2.55	2.55	2.55	2.55
LF	14	993	2.55	2.55	2.55	2.56	2.56	2.56	2.56	2.56	2.56	2.56
LF	14	1003	2.56	2.56	2.57	2.57						

CONDENSED CAPSULE SUMMARY FOR Bayou Cholpe #1

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3 NH3	CHLA	RATE	DECA	SETT DECA	SETT DECA	SOD
km	m≥/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	g/m≤/d
HDWTR	0.09485	24.60	0.00	4.10	4.70	0.00	2.40	0.03	0.00					
55.50	0.09485	24.75	0.00	4.22	4.70	0.00	2.40	0.03	0.00	10.95	0.16	0.00	0.00	0.00	0.26	0.94
55.40	0.09485	24.89	0.00	4.34	4.70	0.00	2.40	0.03	0.00	10.98	0.16	0.00	0.00	0.00	0.26	0.95
55.30	0.09485	25.04	0.00	4.45	4.69	0.00	2.40	0.03	0.00	11.01	0.16	0.00	0.00	0.00	0.27	0.96
55.20	0.09485	25.19	0.00	4.56	4.69	0.00	2.40	0.03	0.00	11.04	0.16	0.00	0.00	0.00	0.27	0.97
55.10	0.09485	25.33	0.00	4.67	4.69	0.00	2.40	0.03	0.00	11.07	0.17	0.00	0.00	0.00	0.28	0.98
55.00	0.09485	25.48	0.00	4.77	4.69	0.00	2.40	0.03	0.00	11.10	0.17	0.00	0.00	0.00	0.28	0.99
54.90	0.09485	25.63	0.00	4.87	4.68	0.00	2.40	0.03	0.00	11.13	0.17	0.00	0.00	0.00	0.28	1.00
54.80	0.09485	25.77	0.00	4.96	4.68	0.00	2.40	0.03	0.00	11.16	0.17	0.00	0.00	0.00	0.29	1.01
54.70	0.09485	25.92	0.00	5.05	4.68	0.00	2.40	0.03	0.00	11.19	0.17	0.00	0.00	0.00	0.29	1.02
54.60	0.09485	26.07	0.00	5.14	4.68	0.00	2.40	0.03	0.00	11.22	0.17	0.00	0.00	0.00	0.30	1.03
54.50	0.09485	26.21	0.00	5.22	4.67	0.00	2.40	0.03	0.00	11.25	0.17	0.00	0.00	0.00	0.30	1.04
54.40	0.09485	26.36	0.00	5.30	4.67	0.00	2.40	0.03	0.00	11.28	0.17	0.00	0.00	0.00	0.31	1.04
54.30	0.09485	26.51	0.00	5.38	4.67	0.00	2.40	0.03	0.00	11.31	0.18	0.00	0.00	0.00	0.31	1.05
54.20	0.09485	26.65	0.00	5.45	4.67	0.00	2.40	0.03	0.00	11.34	0.18	0.00	0.00	0.00	0.32	1.06
54.10	0.09485	26.80	0.00	5.52	4.66	0.00	2.40	0.03	0.00	11.37	0.18	0.00	0.00	0.00	0.32	1.07
54.00	0.09485	26.95	0.00	5.59	4.66	0.00	2.40	0.03	0.00	11.40	0.18	0.00	0.00	0.00	0.33	1.08
53.90	0.09485	27.09	0.00	5.65	4.66	0.00	2.40	0.03	0.00	11.43	0.18	0.00	0.00	0.00	0.33	1.09
53.80	0.09485	27.24	0.00	5.71	4.66	0.00	2.40	0.03	0.00	11.46	0.18	0.00	0.00	0.00	0.34	1.10
53.70	0.09485	27.39	0.00	5.77	4.65	0.00	2.40	0.03	0.00	11.49	0.18	0.00	0.00	0.00	0.34	1.11
53.60	0.09485	27.53	0.00	5.83	4.65	0.00	2.40	0.03	0.00	11.52	0.18	0.00	0.00	0.00	0.35	1.12
53.50	0.09485	27.68	0.00	5.88	4.65	0.00	2.40	0.03	0.00	11.55	0.18	0.00	0.00	0.00	0.35	1.14
53.40	0.09485	27.83	0.00	5.93	4.65	0.00	2.40	0.03	0.00	11.58	0.19	0.00	0.00	0.00	0.35	1.15
53.30	0.09485	27.97	0.00	5.98	4.64	0.00	2.40	0.03	0.00	11.61	0.19	0.00	0.00	0.00	0.36	1.16
53.20	0.09485	28.12	0.00	6.03	4.64	0.00	2.40	0.03	0.00	11.64	0.19	0.00	0.00	0.00	0.36	1.17
53.10	0.09485	28.27	0.00	6.07	4.64	0.00	2.40	0.03	0.00	11.67	0.19	0.00	0.00	0.00	0.37	1.18
53.00	0.09485	28.41	0.00	6.11	4.63	0.00	2.40	0.03	0.00	11.70	0.19	0.00	0.00	0.00	0.37	1.19
52.90	0.09485	28.56	0.00	6.15	4.63	0.00	2.40	0.03	0.00	11.73	0.19	0.00	0.00	0.00	0.38	1.20
52.80	0.09485	28.71	0.00	6.19	4.63	0.00	2.40	0.03	0.00	11.76	0.19	0.00	0.00	0.00	0.38	1.21
52.70	0.09485	28.85	0.00	6.23	4.63	0.00	2.40	0.03	0.00	11.79	0.20	0.00	0.00	0.00	0.39	1.22
52.60	0.09485	29.00	0.00	6.26	4.62	0.00	2.39	0.03	0.00	11.82	0.20	0.00	0.00	0.00	0.39	1.23
52.50	0.10100	29.00	0.00	6.03	4.80	0.00	2.33	0.04	0.00	0.83	0.20	0.00	0.00	0.00	0.39	1.23
52.40	0.10716	29.00	0.00	5.84	4.95	0.00	2.28	0.04	0.00	0.83	0.20	0.00	0.00	0.00	0.39	1.23

52.30	0.11331	29.00	0.00	5.68	5.09	0.00	2.23	0.04	0.00	0.83	0.20	0.00	0.00	0.00	0.39	1.23
52.20	0.11947	29.00	0.00	5.54	5.21	0.00	2.19	0.04	0.00	0.83	0.20	0.00	0.00	0.00	0.38	1.23
52.10	0.12562	29.00	0.00	5.43	5.31	0.00	2.15	0.04	0.00	0.83	0.20	0.00	0.00	0.00	0.38	1.23
52.00	0.13178	29.00	0.00	5.33	5.40	0.00	2.12	0.04	0.00	0.83	0.20	0.00	0.00	0.00	0.38	1.23
51.90	0.13793	29.00	0.00	5.24	5.49	0.00	2.08	0.04	0.00	0.83	0.20	0.00	0.00	0.00	0.38	1.23
51.80	0.14409	29.00	0.00	5.17	5.56	0.00	2.06	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.38	1.23
51.70	0.15024	29.00	0.00	5.10	5.63	0.00	2.03	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.38	1.23
51.60	0.15640	29.00	0.00	5.04	5.69	0.00	2.00	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.38	1.23
51.50	0.16255	29.00	0.00	4.99	5.75	0.00	1.98	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
51.40	0.16871	29.00	0.00	4.95	5.80	0.00	1.96	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
51.30	0.17486	29.00	0.00	4.91	5.85	0.00	1.94	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
51.20	0.18102	29.00	0.00	4.87	5.89	0.00	1.92	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
51.10	0.18717	29.00	0.00	4.84	5.93	0.00	1.91	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
51.00	0.19333	29.00	0.00	4.81	5.97	0.00	1.89	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
50.90	0.19948	29.00	0.00	4.78	6.00	0.00	1.88	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
50.80	0.20564	29.00	0.00	4.75	6.03	0.00	1.86	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
50.70	0.21179	29.00	0.00	4.73	6.06	0.00	1.85	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
50.60	0.21794	29.00	0.00	4.71	6.09	0.00	1.84	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
50.50	0.22410	29.00	0.00	4.69	6.12	0.00	1.83	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
50.40	0.23025	29.00	0.00	4.67	6.14	0.00	1.82	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
50.30	0.23641	29.00	0.00	4.66	6.16	0.00	1.81	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
50.20	0.24256	29.00	0.00	4.64	6.19	0.00	1.80	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
50.10	0.24872	29.00	0.00	4.63	6.21	0.00	1.79	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
50.00	0.25487	29.00	0.00	4.62	6.23	0.00	1.78	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
49.90	0.26103	29.00	0.00	4.61	6.24	0.00	1.77	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
49.80	0.26718	29.00	0.00	4.59	6.26	0.00	1.76	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
49.70	0.27334	29.00	0.00	4.58	6.28	0.00	1.75	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
49.60	0.27949	29.00	0.00	4.57	6.29	0.00	1.75	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
49.50	0.28565	29.00	0.00	4.56	6.31	0.00	1.74	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
49.40	0.29180	29.00	0.00	4.56	6.32	0.00	1.73	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
49.30	0.29796	29.00	0.00	4.55	6.33	0.00	1.73	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
49.20	0.30411	29.00	0.00	4.54	6.35	0.00	1.72	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
49.10	0.31027	29.00	0.00	4.53	6.36	0.00	1.71	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
49.00	0.31642	29.00	0.00	4.53	6.37	0.00	1.71	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
48.90	0.32258	29.00	0.00	4.52	6.38	0.00	1.70	0.05	0.00	0.83	0.20	0.00	0.00	0.00	0.37	1.23
48.80	0.32873	29.00	0.00	4.52	6.39	0.00	1.70	0.05	0.00	0.84	0.20	0.00	0.00	0.00	0.37	1.23
48.70	0.33488	29.00	0.00	4.51	6.40	0.00	1.69	0.05	0.00	0.85	0.20	0.00	0.00	0.00	0.37	1.23
48.60	0.34104	29.00	0.00	4.51	6.41	0.00	1.69	0.05	0.00	0.86	0.20	0.00	0.00	0.00	0.37	1.23
48.50	0.34719	29.00	0.00	4.51	6.42	0.00	1.68	0.05	0.00	0.87	0.20	0.00	0.00	0.00	0.37	1.23
48.40	0.35335	29.00	0.00	4.51	6.43	0.00	1.68	0.05	0.00	0.87	0.20	0.00	0.00	0.00	0.37	1.23
48.30	0.35950	29.00	0.00	4.51	6.44	0.00	1.67	0.05	0.00	0.88	0.20	0.00	0.00	0.00	0.37	1.23
48.20	0.36566	29.00	0.00	4.51	6.44	0.00	1.67	0.05	0.00	0.89	0.20	0.00	0.00	0.00	0.37	1.23
48.10	0.37181	29.00	0.00	4.51	6.45	0.00	1.67	0.05	0.00	0.90	0.20	0.00	0.00	0.00	0.37	1.23
48.00	0.37797	29.00	0.00	4.51	6.46	0.00	1.66	0.05	0.00	0.90	0.20	0.00	0.00	0.00	0.37	1.23
47.90	0.38412	29.00	0.00	4.52	6.47	0.00	1.66	0.05	0.00	0.91	0.20	0.00	0.00	0.00	0.37	1.23
47.80	0.39028	29.00	0.00	4.52	6.47	0.00	1.65	0.05	0.00	0.92	0.20	0.00	0.00	0.00	0.37	1.23
47.70	0.39643	29.00	0.00	4.52	6.48	0.00	1.65	0.05	0.00	0.93	0.20	0.00	0.00	0.00	0.37	1.23
47.60	0.40259	29.00	0.00	4.53	6.49	0.00	1.65	0.05	0.00	0.93	0.20	0.00	0.00	0.00	0.37	1.23
47.50	0.40874	29.00	0.00	4.53	6.49	0.00	1.64	0.05	0.00	0.94	0.20	0.00	0.00	0.00	0.37	1.23
47.40	0.41490	29.00	0.00	4.53	6.50	0.00	1.64	0.05	0.00	0.95	0.20	0.00	0.00	0.00	0.37	1.23

47.30	0.42105	29.00	0.00	4.54	6.51	0.00	1.64	0.05	0.00	0.95	0.20	0.00	0.00	0.00	0.37	1.23
47.20	0.42721	29.00	0.00	4.54	6.51	0.00	1.63	0.05	0.00	0.96	0.20	0.00	0.00	0.00	0.37	1.23
47.10	0.43336	29.00	0.00	4.55	6.52	0.00	1.63	0.05	0.00	0.97	0.20	0.00	0.00	0.00	0.37	1.23
47.00	0.43952	29.00	0.00	4.56	6.52	0.00	1.63	0.05	0.00	0.97	0.20	0.00	0.00	0.00	0.37	1.23
46.90	0.44567	29.00	0.00	4.56	6.53	0.00	1.63	0.05	0.00	0.98	0.20	0.00	0.00	0.00	0.37	1.23
46.80	0.45182	29.00	0.00	4.57	6.53	0.00	1.62	0.05	0.00	0.99	0.20	0.00	0.00	0.00	0.37	1.23
46.70	0.45798	29.00	0.00	4.57	6.54	0.00	1.62	0.05	0.00	0.99	0.20	0.00	0.00	0.00	0.37	1.23
46.60	0.46413	29.00	0.00	4.58	6.54	0.00	1.62	0.05	0.00	1.00	0.20	0.00	0.00	0.00	0.37	1.23
46.50	0.47029	29.00	0.00	4.59	6.55	0.00	1.62	0.05	0.00	1.01	0.20	0.00	0.00	0.00	0.37	1.23
46.40	0.47644	29.00	0.00	4.59	6.55	0.00	1.61	0.05	0.00	1.01	0.20	0.00	0.00	0.00	0.37	1.23
46.30	0.48260	29.00	0.00	4.60	6.55	0.00	1.61	0.05	0.00	1.02	0.20	0.00	0.00	0.00	0.37	1.23
46.20	0.48875	29.00	0.00	4.61	6.56	0.00	1.61	0.05	0.00	1.03	0.20	0.00	0.00	0.00	0.37	1.23
46.10	0.49491	29.00	0.00	4.62	6.56	0.00	1.61	0.05	0.00	1.03	0.20	0.00	0.00	0.00	0.37	1.23
46.00	0.50106	29.00	0.00	4.62	6.57	0.00	1.60	0.05	0.00	1.04	0.20	0.00	0.00	0.00	0.37	1.23
45.90	0.50722	29.00	0.00	4.63	6.57	0.00	1.60	0.05	0.00	1.05	0.20	0.00	0.00	0.00	0.37	1.23
45.80	0.51337	29.00	0.00	4.64	6.57	0.00	1.60	0.05	0.00	1.05	0.20	0.00	0.00	0.00	0.37	1.23
45.70	0.51953	29.00	0.00	4.64	6.58	0.00	1.60	0.05	0.00	1.06	0.20	0.00	0.00	0.00	0.37	1.23
45.60	0.52568	29.00	0.00	4.65	6.58	0.00	1.60	0.05	0.00	1.07	0.20	0.00	0.00	0.00	0.37	1.23
45.50	0.53184	29.00	0.00	4.66	6.58	0.00	1.59	0.05	0.00	1.07	0.20	0.00	0.00	0.00	0.37	1.23
45.40	0.53799	29.00	0.00	4.67	6.59	0.00	1.59	0.05	0.00	1.08	0.20	0.00	0.00	0.00	0.37	1.23
45.30	0.54415	29.00	0.00	4.67	6.59	0.00	1.59	0.05	0.00	1.08	0.20	0.00	0.00	0.00	0.37	1.23
45.20	0.55030	29.00	0.00	4.68	6.59	0.00	1.59	0.05	0.00	1.09	0.20	0.00	0.00	0.00	0.37	1.23
45.10	0.55646	29.00	0.00	4.69	6.60	0.00	1.59	0.04	0.00	1.10	0.20	0.00	0.00	0.00	0.37	1.23
45.00	0.56261	29.00	0.00	4.70	6.60	0.00	1.58	0.04	0.00	1.10	0.20	0.00	0.00	0.00	0.37	1.23
44.90	0.56876	29.00	0.00	4.71	6.60	0.00	1.58	0.04	0.00	1.11	0.20	0.00	0.00	0.00	0.37	1.23
44.80	0.57492	29.00	0.00	4.71	6.60	0.00	1.58	0.04	0.00	1.11	0.20	0.00	0.00	0.00	0.37	1.23
44.70	0.58107	29.00	0.00	4.72	6.61	0.00	1.58	0.04	0.00	1.12	0.20	0.00	0.00	0.00	0.37	1.23
44.60	0.58723	29.00	0.00	4.73	6.61	0.00	1.58	0.04	0.00	1.13	0.20	0.00	0.00	0.00	0.37	1.23
44.50	0.59338	29.00	0.00	4.74	6.61	0.00	1.58	0.04	0.00	1.13	0.20	0.00	0.00	0.00	0.37	1.23
44.40	0.59954	29.00	0.00	4.74	6.61	0.00	1.58	0.04	0.00	1.14	0.20	0.00	0.00	0.00	0.37	1.23
44.30	0.60569	29.00	0.00	4.75	6.62	0.00	1.57	0.04	0.00	1.14	0.20	0.00	0.00	0.00	0.37	1.23
44.20	0.61185	29.00	0.00	4.76	6.62	0.00	1.57	0.04	0.00	1.15	0.20	0.00	0.00	0.00	0.37	1.23
44.10	0.61800	29.00	0.00	4.77	6.62	0.00	1.57	0.04	0.00	1.16	0.20	0.00	0.00	0.00	0.37	1.23
44.00	0.62416	29.00	0.00	4.77	6.62	0.00	1.57	0.04	0.00	1.16	0.20	0.00	0.00	0.00	0.37	1.23
43.90	0.63031	29.00	0.00	4.78	6.63	0.00	1.57	0.04	0.00	1.17	0.20	0.00	0.00	0.00	0.37	1.23
43.80	0.63647	29.00	0.00	4.79	6.63	0.00	1.57	0.04	0.00	1.17	0.20	0.00	0.00	0.00	0.37	1.23
43.70	0.64262	29.00	0.00	4.80	6.63	0.00	1.57	0.04	0.00	1.18	0.20	0.00	0.00	0.00	0.37	1.23
43.60	0.64878	29.00	0.00	4.81	6.63	0.00	1.56	0.04	0.00	1.18	0.20	0.00	0.00	0.00	0.37	1.23
43.50	0.65493	29.00	0.00	4.81	6.63	0.00	1.56	0.04	0.00	1.19	0.20	0.00	0.00	0.00	0.37	1.23
43.40	0.66109	29.00	0.00	4.82	6.64	0.00	1.56	0.04	0.00	1.20	0.20	0.00	0.00	0.00	0.37	1.23
43.30	0.66724	29.00	0.00	4.83	6.64	0.00	1.56	0.04	0.00	1.20	0.20	0.00	0.00	0.00	0.37	1.23
43.20	0.67339	29.00	0.00	4.84	6.64	0.00	1.56	0.04	0.00	1.21	0.20	0.00	0.00	0.00	0.37	1.23
43.10	0.67955	29.00	0.00	4.84	6.64	0.00	1.56	0.04	0.00	1.21	0.20	0.00	0.00	0.00	0.37	1.23
43.00	0.93711	29.05	0.00	4.34	13.25	0.00	1.79	0.05	1.53	0.35	0.17	0.00	0.00	0.00	0.36	5.31
42.90	1.31650	29.11	0.00	3.93	12.30	0.00	1.56	0.07	3.07	0.35	0.17	0.00	0.00	0.00	0.36	5.32
42.80	1.31650	29.16	0.00	3.73	12.32	0.00	1.55	0.07	4.60	0.35	0.17	0.00	0.00	0.00	0.35	5.34
42.70	1.31650	29.21	0.00	3.55	12.34	0.00	1.55	0.07	6.14	0.35	0.17	0.00	0.00	0.00	0.35	5.36
42.60	1.31650	29.27	0.00	3.38	12.36	0.00	1.55	0.07	7.67	0.35	0.17	0.00	0.00	0.00	0.34	5.38
42.50	1.31650	29.32	0.00	3.22	12.38	0.00	1.55	0.07	9.21	0.35	0.17	0.00	0.00	0.00	0.34	5.40
42.40	1.31650	29.37	0.00	3.08	12.39	0.00	1.54	0.07	10.74	0.35	0.17	0.00	0.00	0.00	0.34	5.41

42.30	1.31650	29.43	0.00	2.94	12.41	0.00	1.54	0.07	12.28	0.35	0.17	0.00	0.00	0.00	0.33	5.43
42.20	1.31650	29.48	0.00	2.82	12.43	0.00	1.54	0.08	13.81	0.35	0.17	0.00	0.00	0.00	0.33	5.45
42.10	1.31650	29.53	0.00	2.70	12.44	0.00	1.54	0.08	15.35	0.35	0.17	0.00	0.00	0.00	0.33	5.47
42.00	1.31650	29.59	0.00	2.60	12.46	0.00	1.53	0.08	16.88	0.35	0.17	0.00	0.00	0.00	0.32	5.49
41.90	1.31650	29.64	0.00	2.50	12.47	0.00	1.53	0.08	18.42	0.35	0.17	0.00	0.00	0.00	0.32	5.51
41.80	1.31650	29.70	0.00	2.42	12.49	0.00	1.53	0.08	19.95	0.35	0.17	0.00	0.00	0.00	0.32	5.52
41.70	1.31650	29.75	0.00	2.34	12.50	0.00	1.52	0.08	21.49	0.35	0.17	0.00	0.00	0.00	0.31	5.54
41.60	1.31650	29.80	0.00	2.27	12.51	0.00	1.52	0.08	23.02	0.35	0.17	0.00	0.00	0.00	0.31	5.56
41.50	1.31650	29.86	0.00	2.22	12.52	0.00	1.52	0.08	24.56	0.35	0.17	0.00	0.00	0.00	0.31	5.58
41.40	1.31650	29.91	0.00	2.17	12.54	0.00	1.52	0.08	26.09	0.35	0.17	0.00	0.00	0.00	0.31	5.60
41.30	1.31650	29.96	0.00	2.13	12.55	0.00	1.51	0.08	27.63	0.35	0.17	0.00	0.00	0.00	0.31	5.62
41.20	1.31650	30.02	0.00	2.10	12.56	0.00	1.51	0.08	29.16	0.35	0.17	0.00	0.00	0.00	0.31	5.64
41.10	1.31650	30.07	0.00	2.08	12.57	0.00	1.51	0.08	30.70	0.35	0.17	0.00	0.00	0.00	0.31	5.66
41.00	1.31650	30.12	0.00	2.06	12.58	0.00	1.51	0.09	32.23	0.35	0.18	0.00	0.00	0.00	0.31	5.68
40.90	1.31650	30.18	0.00	2.06	12.59	0.00	1.50	0.09	33.77	0.35	0.18	0.00	0.00	0.00	0.31	5.69
40.80	1.31650	30.23	0.00	2.06	12.60	0.00	1.50	0.09	35.30	0.35	0.18	0.00	0.00	0.00	0.31	5.71
40.70	1.31650	30.28	0.00	2.07	12.60	0.00	1.50	0.09	36.84	0.35	0.18	0.00	0.00	0.00	0.31	5.73
40.60	1.31650	30.34	0.00	2.09	12.61	0.00	1.50	0.09	38.37	0.35	0.18	0.00	0.00	0.00	0.31	5.75
40.50	1.31650	30.39	0.00	2.12	12.62	0.00	1.49	0.09	39.91	0.35	0.18	0.00	0.00	0.00	0.32	5.77
40.40	1.31650	30.44	0.00	2.15	12.62	0.00	1.49	0.09	41.44	0.35	0.18	0.00	0.00	0.00	0.32	5.79
40.30	1.31650	30.50	0.00	2.19	12.63	0.00	1.49	0.09	42.98	0.35	0.18	0.00	0.00	0.00	0.32	5.81
40.20	1.31650	30.55	0.00	2.24	12.64	0.00	1.49	0.09	44.51	0.35	0.18	0.00	0.00	0.00	0.33	5.83
40.10	1.31650	30.60	0.00	2.29	12.64	0.00	1.48	0.09	46.05	0.35	0.18	0.00	0.00	0.00	0.33	5.85
40.00	1.31650	30.66	0.00	2.35	12.65	0.00	1.48	0.09	47.58	0.35	0.18	0.00	0.00	0.00	0.34	5.87
39.90	1.31650	30.71	0.00	2.42	12.65	0.00	1.48	0.09	49.12	0.36	0.18	0.00	0.00	0.00	0.34	5.89
39.80	1.31650	30.77	0.00	2.49	12.66	0.00	1.47	0.09	50.65	0.36	0.18	0.00	0.00	0.00	0.35	5.91
39.70	1.31650	30.82	0.00	2.57	12.66	0.00	1.47	0.09	52.19	0.36	0.18	0.00	0.00	0.00	0.35	5.93
39.60	1.31650	30.87	0.00	2.66	12.66	0.00	1.47	0.09	53.72	0.36	0.18	0.00	0.00	0.00	0.36	5.95
39.50	1.31650	30.93	0.00	2.75	12.66	0.00	1.47	0.09	55.26	0.36	0.18	0.00	0.00	0.00	0.37	5.97
39.40	1.31650	30.98	0.00	2.85	12.67	0.00	1.46	0.09	56.79	0.36	0.18	0.00	0.00	0.00	0.37	5.99
39.30	1.31650	31.03	0.00	2.96	12.67	0.00	1.46	0.09	58.33	0.36	0.18	0.00	0.00	0.00	0.38	6.01
39.20	1.31650	31.09	0.00	3.07	12.67	0.00	1.46	0.09	59.86	0.36	0.18	0.00	0.00	0.00	0.39	6.03
39.10	1.31650	31.14	0.00	3.19	12.67	0.00	1.46	0.09	61.40	0.36	0.18	0.00	0.00	0.00	0.39	6.05
39.00	1.31650	31.19	0.00	3.31	12.67	0.00	1.45	0.09	62.93	0.36	0.18	0.00	0.00	0.00	0.40	6.07
38.90	1.31650	31.25	0.00	3.44	12.67	0.00	1.45	0.09	64.47	0.36	0.18	0.00	0.00	0.00	0.40	6.09
38.80	1.31672	31.30	0.00	3.57	12.68	0.00	1.45	0.09	66.00	0.36	0.18	0.00	0.00	0.00	0.41	6.11
38.70	1.32587	31.29	0.00	3.96	12.58	0.00	1.45	0.09	65.10	0.31	0.18	0.00	0.00	0.00	0.42	2.04
38.60	1.32587	31.28	0.00	4.32	12.53	0.00	1.44	0.09	64.19	0.31	0.18	0.00	0.00	0.00	0.43	2.03
38.50	1.32587	31.26	0.00	4.66	12.48	0.00	1.44	0.09	63.29	0.31	0.18	0.00	0.00	0.00	0.44	2.03
38.40	1.32587	31.25	0.00	4.98	12.44	0.00	1.44	0.09	62.38	0.31	0.18	0.00	0.00	0.00	0.45	2.03
38.30	1.32587	31.24	0.00	5.28	12.39	0.00	1.43	0.09	61.48	0.31	0.18	0.00	0.00	0.00	0.45	2.03
38.20	1.32587	31.23	0.00	5.56	12.34	0.00	1.43	0.09	60.58	0.31	0.18	0.00	0.00	0.00	0.46	2.03
38.10	1.32587	31.21	0.00	5.83	12.30	0.00	1.42	0.09	59.67	0.31	0.18	0.00	0.00	0.00	0.46	2.03
38.00	1.32587	31.20	0.00	6.08	12.25	0.00	1.42	0.09	58.77	0.31	0.18	0.00	0.00	0.00	0.47	2.02
37.90	1.32587	31.19	0.00	6.31	12.21	0.00	1.42	0.09	57.86	0.31	0.18	0.00	0.00	0.00	0.47	2.02
37.80	1.32587	31.18	0.00	6.53	12.17	0.00	1.41	0.09	56.96	0.31	0.18	0.00	0.00	0.00	0.47	2.02
37.70	1.32587	31.16	0.00	6.73	12.13	0.00	1.41	0.09	56.05	0.31	0.18	0.00	0.00	0.00	0.47	2.02
37.60	1.32587	31.15	0.00	6.92	12.09	0.00	1.40	0.09	55.15	0.31	0.18	0.00	0.00	0.00	0.48	2.02
37.50	1.32587	31.14	0.00	7.09	12.05	0.00	1.40	0.08	54.25	0.31	0.18	0.00	0.00	0.00	0.48	2.02
37.40	1.32587	31.13	0.00	7.25	12.01	0.00	1.40	0.08	53.34	0.31	0.18	0.00	0.00	0.00	0.48	2.02

37.30	1.32587	31.12	0.00	7.40	11.98	0.00	1.39	0.08	52.44	0.31	0.18	0.00	0.00	0.00	0.48	2.01
37.20	1.32587	31.10	0.00	7.54	11.94	0.00	1.39	0.08	51.53	0.31	0.18	0.00	0.00	0.00	0.48	2.01
37.10	1.32587	31.09	0.00	7.66	11.90	0.00	1.38	0.08	50.63	0.31	0.18	0.00	0.00	0.00	0.48	2.01
37.00	1.32587	31.08	0.00	7.77	11.87	0.00	1.38	0.08	49.73	0.31	0.18	0.00	0.00	0.00	0.48	2.01
36.90	1.32587	31.07	0.00	7.87	11.84	0.00	1.38	0.08	48.82	0.31	0.18	0.00	0.00	0.00	0.48	2.01
36.80	1.56087	31.05	0.00	7.23	10.69	0.00	1.39	0.28	47.92	0.31	0.18	0.00	0.00	0.00	0.48	2.01
36.70	1.57969	31.04	0.00	7.24	10.89	0.00	1.39	0.29	47.01	0.31	0.18	0.00	0.00	0.00	0.48	2.00
36.60	1.57969	31.03	0.00	7.30	10.88	0.00	1.39	0.28	46.11	0.31	0.18	0.00	0.00	0.00	0.48	2.00
36.50	1.57969	31.02	0.00	7.35	10.86	0.00	1.38	0.27	45.21	0.31	0.18	0.00	0.00	0.00	0.48	2.00
36.40	1.57969	31.00	0.00	7.39	10.85	0.00	1.38	0.26	44.30	0.31	0.18	0.00	0.00	0.00	0.48	2.00
36.30	1.57969	30.99	0.00	7.43	10.84	0.00	1.38	0.25	43.40	0.31	0.18	0.00	0.00	0.00	0.48	2.00
36.20	1.57969	30.98	0.00	7.46	10.83	0.00	1.37	0.25	42.49	0.31	0.18	0.00	0.00	0.00	0.48	2.00
36.10	1.57969	30.97	0.00	7.48	10.83	0.00	1.37	0.24	41.59	0.31	0.18	0.00	0.00	0.00	0.48	2.00
36.00	1.57969	30.95	0.00	7.50	10.82	0.00	1.37	0.23	40.68	0.31	0.18	0.00	0.00	0.00	0.48	1.99
35.90	1.57969	30.94	0.00	7.51	10.81	0.00	1.36	0.22	39.78	0.31	0.18	0.00	0.00	0.00	0.48	1.99
35.80	1.57969	30.93	0.00	7.52	10.80	0.00	1.36	0.22	38.88	0.31	0.18	0.00	0.00	0.00	0.48	1.99
35.70	1.57969	30.92	0.00	7.52	10.79	0.00	1.36	0.21	37.97	0.31	0.18	0.00	0.00	0.00	0.47	1.99
35.60	1.57969	30.91	0.00	7.52	10.78	0.00	1.35	0.20	37.07	0.31	0.18	0.00	0.00	0.00	0.47	1.99
35.50	1.57969	30.89	0.00	7.51	10.77	0.00	1.35	0.20	36.16	0.31	0.18	0.00	0.00	0.00	0.47	1.99
35.40	1.57969	30.88	0.00	7.49	10.77	0.00	1.35	0.19	35.26	0.31	0.18	0.00	0.00	0.00	0.47	1.98
35.30	1.57969	30.87	0.00	7.47	10.76	0.00	1.34	0.19	34.36	0.31	0.18	0.00	0.00	0.00	0.47	1.98
35.20	1.57969	30.86	0.00	7.44	10.75	0.00	1.34	0.18	33.45	0.31	0.18	0.00	0.00	0.00	0.47	1.98
35.10	1.57969	30.84	0.00	7.41	10.75	0.00	1.34	0.18	32.55	0.31	0.18	0.00	0.00	0.00	0.47	1.98
35.00	1.57969	30.83	0.00	7.37	10.74	0.00	1.33	0.17	31.64	0.31	0.18	0.00	0.00	0.00	0.47	1.98
34.90	1.57969	30.82	0.00	7.33	10.73	0.00	1.33	0.17	30.74	0.30	0.18	0.00	0.00	0.00	0.47	1.98
34.80	1.57969	30.81	0.00	7.29	10.73	0.00	1.33	0.16	29.84	0.30	0.18	0.00	0.00	0.00	0.47	1.97
34.70	1.57969	30.79	0.00	7.24	10.72	0.00	1.32	0.16	28.93	0.30	0.18	0.00	0.00	0.00	0.47	1.97
34.60	1.57969	30.78	0.00	7.18	10.71	0.00	1.32	0.16	28.03	0.30	0.18	0.00	0.00	0.00	0.47	1.97
34.50	1.57969	30.77	0.00	7.12	10.71	0.00	1.32	0.15	27.12	0.30	0.18	0.00	0.00	0.00	0.46	1.97
34.40	1.57969	30.76	0.00	7.06	10.70	0.00	1.31	0.15	26.22	0.30	0.18	0.00	0.00	0.00	0.46	1.97
34.30	1.57969	30.75	0.00	6.99	10.70	0.00	1.31	0.15	25.32	0.30	0.18	0.00	0.00	0.00	0.46	1.97
34.20	1.57969	30.73	0.00	6.92	10.69	0.00	1.31	0.14	24.41	0.30	0.18	0.00	0.00	0.00	0.46	1.97
34.10	1.57969	30.72	0.00	6.84	10.69	0.00	1.31	0.14	23.51	0.30	0.18	0.00	0.00	0.00	0.46	1.96
34.00	1.57969	30.71	0.00	6.76	10.68	0.00	1.30	0.14	22.60	0.30	0.18	0.00	0.00	0.00	0.46	1.96
33.90	1.57969	30.70	0.00	6.68	10.68	0.00	1.30	0.13	21.70	0.30	0.18	0.00	0.00	0.00	0.46	1.96
33.80	1.57969	30.68	0.00	6.59	10.68	0.00	1.30	0.13	20.79	0.30	0.18	0.00	0.00	0.00	0.45	1.96
33.70	1.57969	30.67	0.00	6.50	10.67	0.00	1.29	0.13	19.89	0.30	0.18	0.00	0.00	0.00	0.45	1.96
33.60	1.57969	30.66	0.00	6.40	10.67	0.00	1.29	0.13	18.99	0.30	0.18	0.00	0.00	0.00	0.45	1.96
33.50	1.57969	30.65	0.00	6.31	10.66	0.00	1.29	0.12	18.08	0.30	0.18	0.00	0.00	0.00	0.45	1.96
33.40	1.57969	30.63	0.00	6.20	10.66	0.00	1.28	0.12	17.18	0.30	0.18	0.00	0.00	0.00	0.45	1.95
33.30	1.57969	30.62	0.00	6.10	10.66	0.00	1.28	0.12	16.27	0.30	0.18	0.00	0.00	0.00	0.45	1.95
33.20	1.57969	30.61	0.00	5.99	10.65	0.00	1.28	0.12	15.37	0.30	0.18	0.00	0.00	0.00	0.44	1.95
33.10	1.57969	30.60	0.00	5.88	10.65	0.00	1.27	0.12	14.47	0.30	0.18	0.00	0.00	0.00	0.44	1.95
33.00	1.57969	30.58	0.00	5.76	10.65	0.00	1.27	0.11	13.56	0.30	0.18	0.00	0.00	0.00	0.44	1.95
32.90	1.57969	30.57	0.00	5.64	10.64	0.00	1.27	0.11	12.66	0.30	0.18	0.00	0.00	0.00	0.44	1.95
32.80	1.57969	30.56	0.00	5.52	10.64	0.00	1.27	0.11	11.75	0.30	0.18	0.00	0.00	0.00	0.43	1.94
32.70	1.57969	30.55	0.00	5.40	10.64	0.00	1.26	0.11	10.85	0.30	0.18	0.00	0.00	0.00	0.43	1.94
32.60	1.57969	30.54	0.00	5.27	10.64	0.00	1.26	0.11	9.95	0.30	0.18	0.00	0.00	0.00	0.43	1.94
32.50	1.57969	30.52	0.00	5.14	10.63	0.00	1.26	0.11	9.04	0.30	0.18	0.00	0.00	0.00	0.43	1.94
32.40	1.57969	30.51	0.00	5.01	10.63	0.00	1.25	0.10	8.14	0.30	0.18	0.00	0.00	0.00	0.42	1.94

32.30	1.57969	30.50	0.00	4.88	10.63	0.00	1.25	0.10	7.23	0.30	0.18	0.00	0.00	0.00	0.42	1.94
32.20	1.57969	30.49	0.00	4.74	10.63	0.00	1.25	0.10	6.33	0.30	0.18	0.00	0.00	0.00	0.42	1.94
32.10	1.57969	30.47	0.00	4.60	10.63	0.00	1.24	0.10	5.42	0.30	0.18	0.00	0.00	0.00	0.41	1.93
32.00	1.57969	30.46	0.00	4.46	10.63	0.00	1.24	0.10	4.52	0.30	0.18	0.00	0.00	0.00	0.41	1.93
31.90	1.57969	30.45	0.00	4.32	10.62	0.00	1.24	0.10	3.62	0.30	0.18	0.00	0.00	0.00	0.41	1.93
31.80	1.57969	30.44	0.00	4.17	10.62	0.00	1.24	0.10	2.71	0.30	0.18	0.00	0.00	0.00	0.40	1.93
31.70	1.57969	30.42	0.00	4.02	10.62	0.00	1.23	0.10	1.81	0.30	0.18	0.00	0.00	0.00	0.40	1.93
31.60	1.57969	30.41	0.00	3.87	10.62	0.00	1.23	0.10	0.90	0.30	0.18	0.00	0.00	0.00	0.39	1.93
31.50	1.57969	30.40	0.00	3.72	10.62	0.00	1.23	0.10	0.00	0.30	0.18	0.00	0.00	0.00	0.39	1.93
31.40	9.14355	30.39	0.00	5.08	3.28	0.00	1.20	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.42	2.50
31.30	9.14355	30.39	0.00	5.05	3.27	0.00	1.20	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.42	2.50
31.20	9.14355	30.38	0.00	5.02	3.26	0.00	1.20	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.42	2.50
31.10	9.14355	30.37	0.00	4.99	3.26	0.00	1.21	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.42	2.50
31.00	9.14355	30.36	0.00	4.97	3.25	0.00	1.21	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.42	2.50
30.90	9.14355	30.36	0.00	4.94	3.24	0.00	1.22	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.42	2.50
30.80	9.14355	30.35	0.00	4.91	3.23	0.00	1.22	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.42	2.49
30.70	9.14355	30.34	0.00	4.89	3.22	0.00	1.22	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.42	2.49
30.60	9.14355	30.34	0.00	4.86	3.22	0.00	1.23	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.49
30.50	9.14355	30.33	0.00	4.84	3.21	0.00	1.23	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.49
30.40	9.14355	30.32	0.00	4.81	3.20	0.00	1.24	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.49
30.30	9.14355	30.32	0.00	4.79	3.19	0.00	1.24	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.49
30.20	9.14356	30.31	0.00	4.76	3.18	0.00	1.24	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.49
30.10	9.14356	30.30	0.00	4.74	3.18	0.00	1.25	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.49
30.00	9.14356	30.29	0.00	4.71	3.17	0.00	1.25	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.49
29.90	9.14356	30.29	0.00	4.69	3.16	0.00	1.26	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.48
29.80	9.14356	30.28	0.00	4.67	3.15	0.00	1.26	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.48
29.70	9.14356	30.27	0.00	4.64	3.15	0.00	1.26	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.48
29.60	9.14356	30.27	0.00	4.62	3.14	0.00	1.27	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.48
29.50	9.14356	30.26	0.00	4.60	3.13	0.00	1.27	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.48
29.40	9.14356	30.25	0.00	4.58	3.12	0.00	1.28	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.41	2.48
29.30	9.14356	30.24	0.00	4.55	3.12	0.00	1.28	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.48
29.20	9.14356	30.24	0.00	4.53	3.11	0.00	1.28	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.48
29.10	9.14356	30.23	0.00	4.51	3.10	0.00	1.29	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.48
29.00	9.14356	30.22	0.00	4.49	3.09	0.00	1.29	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.47
28.90	9.14356	30.22	0.00	4.47	3.09	0.00	1.29	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.47
28.80	9.14356	30.21	0.00	4.45	3.08	0.00	1.30	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.47
28.70	9.14356	30.20	0.00	4.43	3.07	0.00	1.30	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.47
28.60	9.14356	30.20	0.00	4.40	3.07	0.00	1.31	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.47
28.50	9.14356	30.19	0.00	4.38	3.06	0.00	1.31	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.47
28.40	9.14356	30.18	0.00	4.36	3.05	0.00	1.31	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.47
28.30	9.14356	30.17	0.00	4.34	3.05	0.00	1.32	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.47
28.20	9.14356	30.17	0.00	4.33	3.04	0.00	1.32	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.47
28.10	9.14356	30.16	0.00	4.31	3.03	0.00	1.33	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.47
28.00	9.14356	30.15	0.00	4.29	3.03	0.00	1.33	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.40	2.46
27.90	9.14356	30.15	0.00	4.27	3.02	0.00	1.33	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.46
27.80	9.14356	30.14	0.00	4.25	3.01	0.00	1.34	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.46
27.70	9.14356	30.13	0.00	4.23	3.01	0.00	1.34	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.46
27.60	9.14356	30.12	0.00	4.21	3.00	0.00	1.35	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.46
27.50	9.14356	30.12	0.00	4.19	2.99	0.00	1.35	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.46
27.40	9.14356	30.11	0.00	4.18	2.99	0.00	1.35	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.46

27.30	9.14356	30.10	0.00	4.16	2.98	0.00	1.36	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.46
27.20	9.14356	30.10	0.00	4.14	2.97	0.00	1.36	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.46
27.10	9.14356	30.09	0.00	4.12	2.97	0.00	1.37	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.45
27.00	9.14356	30.08	0.00	4.11	2.96	0.00	1.37	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.45
26.90	9.14356	30.08	0.00	4.09	2.95	0.00	1.37	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.45
26.80	9.14356	30.07	0.00	4.07	2.95	0.00	1.38	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.45
26.70	9.14356	30.06	0.00	4.06	2.94	0.00	1.38	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.45
26.60	9.14356	30.05	0.00	4.04	2.94	0.00	1.39	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.45
26.50	9.14356	30.05	0.00	4.02	2.93	0.00	1.39	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.39	2.45
26.40	9.14356	30.04	0.00	4.01	2.92	0.00	1.39	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.45
26.30	9.14356	30.03	0.00	3.99	2.92	0.00	1.40	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.45
26.20	9.14356	30.03	0.00	3.98	2.91	0.00	1.40	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.44
26.10	9.14356	30.02	0.00	3.96	2.91	0.00	1.40	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.44
26.00	9.14356	30.01	0.00	3.95	2.90	0.00	1.41	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.44
25.90	9.14356	30.01	0.00	3.93	2.89	0.00	1.41	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.44
25.80	9.14356	30.00	0.00	3.92	2.89	0.00	1.42	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.44
25.70	9.14356	29.99	0.00	3.90	2.88	0.00	1.42	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.44
25.60	9.14356	29.98	0.00	3.89	2.88	0.00	1.42	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.44
25.50	9.14356	29.98	0.00	3.87	2.87	0.00	1.43	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.44
25.40	9.14356	29.97	0.00	3.86	2.87	0.00	1.43	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.44
25.30	9.14356	29.96	0.00	3.85	2.86	0.00	1.44	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.43
25.20	9.14356	29.96	0.00	3.83	2.85	0.00	1.44	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.43
25.10	9.14356	29.95	0.00	3.82	2.85	0.00	1.44	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.43
25.00	9.14356	29.94	0.00	3.80	2.84	0.00	1.45	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.43
24.90	9.14356	29.93	0.00	3.79	2.84	0.00	1.45	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.38	2.43
24.80	9.14356	29.93	0.00	3.78	2.83	0.00	1.45	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.37	2.43
24.70	9.14356	29.92	0.00	3.76	2.83	0.00	1.46	0.08	0.00	0.28	0.21	0.00	0.00	0.00	0.37	2.43
24.60	9.14356	29.91	0.00	3.75	2.82	0.00	1.46	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.43
24.50	9.14366	29.91	0.00	3.74	2.82	0.00	1.47	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.43
24.40	9.14366	29.90	0.00	3.73	2.81	0.00	1.47	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.42
24.30	9.14366	29.89	0.00	3.71	2.81	0.00	1.47	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.42
24.20	9.14366	29.89	0.00	3.70	2.80	0.00	1.48	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.42
24.10	9.14366	29.88	0.00	3.69	2.80	0.00	1.48	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.42
24.00	9.14366	29.87	0.00	3.68	2.79	0.00	1.49	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.42
23.90	9.14366	29.86	0.00	3.67	2.79	0.00	1.49	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.42
23.80	9.14366	29.86	0.00	3.65	2.78	0.00	1.49	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.42
23.70	9.14366	29.85	0.00	3.64	2.78	0.00	1.50	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.42
23.60	9.14366	29.84	0.00	3.63	2.77	0.00	1.50	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.42
23.50	9.14366	29.84	0.00	3.62	2.77	0.00	1.50	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.42
23.40	9.14366	29.83	0.00	3.61	2.76	0.00	1.51	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.41
23.30	9.14366	29.82	0.00	3.60	2.76	0.00	1.51	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.41
23.20	9.14366	29.81	0.00	3.59	2.75	0.00	1.52	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.41
23.10	9.14366	29.81	0.00	3.58	2.75	0.00	1.52	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.37	2.41
23.00	9.14366	29.80	0.00	3.56	2.74	0.00	1.52	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.41
22.90	9.14366	29.79	0.00	3.55	2.74	0.00	1.53	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.41
22.80	9.14366	29.79	0.00	3.54	2.73	0.00	1.53	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.41
22.70	9.14366	29.78	0.00	3.53	2.73	0.00	1.53	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.41
22.60	9.14366	29.77	0.00	3.52	2.72	0.00	1.54	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.41
22.50	9.14366	29.77	0.00	3.51	2.72	0.00	1.54	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.40
22.40	9.14366	29.76	0.00	3.50	2.71	0.00	1.55	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.40

22.30	9.14366	29.75	0.00	3.49	2.71	0.00	1.55	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.40
22.20	9.14366	29.74	0.00	3.48	2.70	0.00	1.55	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.40
22.10	9.14366	29.74	0.00	3.47	2.70	0.00	1.56	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.40
22.00	9.14366	29.73	0.00	3.47	2.70	0.00	1.56	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.40
21.90	9.14366	29.72	0.00	3.46	2.69	0.00	1.57	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.40
21.80	9.14366	29.72	0.00	3.45	2.69	0.00	1.57	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.40
21.70	9.14366	29.71	0.00	3.44	2.68	0.00	1.57	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.40
21.60	9.14366	29.70	0.00	3.43	2.68	0.00	1.58	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.39
21.50	9.14366	29.69	0.00	3.42	2.67	0.00	1.58	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.39
21.40	9.14366	29.69	0.00	3.41	2.67	0.00	1.58	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.39
21.30	9.14366	29.68	0.00	3.40	2.66	0.00	1.59	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.39
21.20	9.14376	29.67	0.00	3.39	2.66	0.00	1.59	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.39
21.10	9.14376	29.67	0.00	3.39	2.66	0.00	1.60	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.36	2.39
21.00	9.14376	29.66	0.00	3.38	2.65	0.00	1.60	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.39
20.90	9.14376	29.65	0.00	3.37	2.65	0.00	1.60	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.39
20.80	9.14376	29.65	0.00	3.36	2.64	0.00	1.61	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.39
20.70	9.14376	29.64	0.00	3.35	2.64	0.00	1.61	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.39
20.60	9.14376	29.63	0.00	3.34	2.64	0.00	1.61	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.38
20.50	9.14376	29.62	0.00	3.34	2.63	0.00	1.62	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.38
20.40	9.14376	29.62	0.00	3.33	2.63	0.00	1.62	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.38
20.30	9.14376	29.61	0.00	3.32	2.62	0.00	1.63	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.38
20.20	9.14831	29.60	0.00	3.32	2.63	0.00	1.63	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.38
20.10	9.14831	29.60	0.00	3.31	2.62	0.00	1.63	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.38
20.00	9.14831	29.59	0.00	3.30	2.62	0.00	1.64	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.38
19.90	9.14831	29.58	0.00	3.29	2.61	0.00	1.64	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.38
19.80	9.14831	29.57	0.00	3.29	2.61	0.00	1.64	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.38
19.70	9.14831	29.57	0.00	3.28	2.61	0.00	1.65	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.37
19.60	9.14831	29.56	0.00	3.27	2.60	0.00	1.65	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.37
19.50	9.14831	29.55	0.00	3.26	2.60	0.00	1.65	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.37
19.40	9.14841	29.55	0.00	3.26	2.60	0.00	1.66	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.37
19.30	9.14841	29.54	0.00	3.25	2.59	0.00	1.66	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.37
19.20	9.14841	29.53	0.00	3.24	2.59	0.00	1.67	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.37
19.10	9.14841	29.53	0.00	3.24	2.58	0.00	1.67	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.35	2.37
19.00	10.50742	29.52	0.00	3.07	2.70	0.00	1.60	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.37
18.90	10.50742	29.51	0.00	3.07	2.70	0.00	1.60	0.08	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.37
18.80	10.50742	29.50	0.00	3.06	2.69	0.00	1.61	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.37
18.70	10.50742	29.50	0.00	3.06	2.69	0.00	1.61	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.36
18.60	10.50742	29.49	0.00	3.05	2.68	0.00	1.61	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.36
18.50	10.50742	29.48	0.00	3.05	2.68	0.00	1.62	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.36
18.40	10.50742	29.48	0.00	3.05	2.68	0.00	1.62	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.36
18.30	10.50742	29.47	0.00	3.04	2.67	0.00	1.62	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.36
18.20	10.50742	29.46	0.00	3.04	2.67	0.00	1.63	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.36
18.10	10.50742	29.46	0.00	3.03	2.67	0.00	1.63	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.36
18.00	10.50742	29.45	0.00	3.03	2.66	0.00	1.63	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.36
17.90	10.50742	29.44	0.00	3.02	2.66	0.00	1.63	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.36
17.80	10.50742	29.43	0.00	3.02	2.66	0.00	1.64	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.35
17.70	10.50742	29.43	0.00	3.02	2.65	0.00	1.64	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.35
17.60	10.50742	29.42	0.00	3.01	2.65	0.00	1.64	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.34	2.35
17.50	10.50742	29.41	0.00	3.01	2.65	0.00	1.65	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.35
17.40	10.50742	29.41	0.00	3.00	2.64	0.00	1.65	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.35

17.30	10.50742	29.40	0.00	3.00	2.64	0.00	1.65	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.35
17.20	10.50742	29.39	0.00	3.00	2.64	0.00	1.66	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.35
17.10	10.50742	29.38	0.00	2.99	2.63	0.00	1.66	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.35
17.00	10.50742	29.38	0.00	2.99	2.63	0.00	1.66	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.35
16.90	10.50742	29.37	0.00	2.99	2.63	0.00	1.67	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.35
16.80	10.50742	29.36	0.00	2.98	2.62	0.00	1.67	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.34
16.70	10.50742	29.36	0.00	2.98	2.62	0.00	1.67	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.34
16.60	10.50742	29.35	0.00	2.98	2.62	0.00	1.68	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.34
16.50	10.50746	29.34	0.00	2.97	2.61	0.00	1.68	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.34
16.40	10.50746	29.34	0.00	2.97	2.61	0.00	1.68	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.34
16.30	10.50746	29.33	0.00	2.97	2.61	0.00	1.69	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.34
16.20	10.50746	29.32	0.00	2.96	2.60	0.00	1.69	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.34
16.10	10.50746	29.31	0.00	2.96	2.60	0.00	1.69	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.34
16.00	10.50746	29.31	0.00	2.96	2.60	0.00	1.70	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.34
15.90	10.50746	29.30	0.00	2.95	2.59	0.00	1.70	0.09	0.00	0.28	0.20	0.00	0.00	0.00	0.33	2.34
15.80	11.34741	29.32	0.00	2.91	4.26	0.00	1.68	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.26
15.70	11.34741	29.33	0.00	2.89	4.23	0.00	1.68	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.26
15.60	11.34741	29.35	0.00	2.88	4.19	0.00	1.68	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.26
15.50	11.34741	29.36	0.00	2.86	4.16	0.00	1.68	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.26
15.40	11.34741	29.38	0.00	2.85	4.12	0.00	1.68	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.26
15.30	11.34741	29.40	0.00	2.83	4.09	0.00	1.68	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.26
15.20	11.34741	29.41	0.00	2.82	4.06	0.00	1.68	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.27
15.10	11.34741	29.43	0.00	2.81	4.03	0.00	1.69	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.27
15.00	11.34741	29.44	0.00	2.79	3.99	0.00	1.69	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.27
14.90	11.34741	29.46	0.00	2.78	3.96	0.00	1.69	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.27
14.80	11.34741	29.48	0.00	2.77	3.93	0.00	1.69	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.27
14.70	11.34741	29.49	0.00	2.76	3.90	0.00	1.69	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.27
14.60	11.34741	29.51	0.00	2.74	3.87	0.00	1.69	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.27
14.50	11.34741	29.52	0.00	2.73	3.84	0.00	1.69	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.28
14.40	11.34741	29.54	0.00	2.72	3.81	0.00	1.69	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.28
14.30	11.34741	29.56	0.00	2.71	3.78	0.00	1.69	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.28
14.20	11.34741	29.57	0.00	2.70	3.75	0.00	1.69	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.28
14.10	11.34741	29.59	0.00	2.69	3.72	0.00	1.70	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.28
14.00	11.34741	29.60	0.00	2.68	3.69	0.00	1.70	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.28
13.90	11.34741	29.62	0.00	2.67	3.66	0.00	1.70	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.28
13.80	11.34741	29.64	0.00	2.66	3.63	0.00	1.70	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.28
13.70	11.34741	29.65	0.00	2.65	3.60	0.00	1.70	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.29
13.60	11.34741	29.67	0.00	2.64	3.57	0.00	1.70	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.29
13.50	11.34741	29.68	0.00	2.63	3.54	0.00	1.70	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.29
13.40	11.34741	29.70	0.00	2.62	3.51	0.00	1.70	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.29
13.30	11.34741	29.72	0.00	2.61	3.48	0.00	1.70	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.29
13.20	11.34741	29.73	0.00	2.60	3.45	0.00	1.70	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.29
13.10	11.34741	29.75	0.00	2.59	3.43	0.00	1.70	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.29
13.00	11.34741	29.76	0.00	2.59	3.40	0.00	1.71	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.29
12.90	11.34741	29.78	0.00	2.58	3.37	0.00	1.71	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.30
12.80	11.34741	29.80	0.00	2.57	3.34	0.00	1.71	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.30
12.70	11.34741	29.81	0.00	2.56	3.32	0.00	1.71	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.30
12.60	11.34741	29.83	0.00	2.56	3.29	0.00	1.71	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.30
12.50	11.34741	29.84	0.00	2.55	3.26	0.00	1.71	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.30
12.40	11.34741	29.86	0.00	2.54	3.24	0.00	1.71	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.30

12.30	11.34741	29.88	0.00	2.54	3.21	0.00	1.71	0.10	0.00	0.26	0.31	0.00	0.00	0.00	0.33	1.30
12.20	11.34741	29.89	0.00	2.53	3.18	0.00	1.71	0.10	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.31
12.10	11.34741	29.91	0.00	2.53	3.16	0.00	1.71	0.10	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.31
12.00	11.34741	29.92	0.00	2.52	3.13	0.00	1.72	0.11	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.31
11.90	11.34741	29.94	0.00	2.51	3.11	0.00	1.72	0.11	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.31
11.80	11.34741	29.96	0.00	2.51	3.08	0.00	1.72	0.11	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.31
11.70	11.34741	29.97	0.00	2.50	3.06	0.00	1.72	0.11	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.31
11.60	11.34741	29.99	0.00	2.50	3.03	0.00	1.72	0.11	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.31
11.50	11.34741	30.00	0.00	2.49	3.01	0.00	1.72	0.11	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.31
11.40	11.34741	30.02	0.00	2.49	2.98	0.00	1.72	0.11	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.32
11.30	11.34741	30.04	0.00	2.49	2.96	0.00	1.72	0.11	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.32
11.20	11.34741	30.05	0.00	2.48	2.93	0.00	1.72	0.11	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.32
11.10	11.34741	30.07	0.00	2.48	2.91	0.00	1.72	0.11	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.32
11.00	11.34741	30.08	0.00	2.47	2.88	0.00	1.72	0.11	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.32
10.90	11.34741	30.10	0.00	2.47	2.86	0.00	1.73	0.11	0.00	0.26	0.32	0.00	0.00	0.00	0.33	1.32
10.80	18.22570	30.10	0.00	2.86	3.48	0.00	1.58	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
10.70	18.22570	30.10	0.00	2.86	3.47	0.00	1.58	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
10.60	18.22570	30.10	0.00	2.86	3.45	0.00	1.58	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
10.50	18.22570	30.10	0.00	2.86	3.44	0.00	1.58	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
10.40	18.22570	30.10	0.00	2.86	3.43	0.00	1.58	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
10.30	18.22570	30.10	0.00	2.86	3.42	0.00	1.58	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
10.20	18.22570	30.10	0.00	2.86	3.41	0.00	1.58	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
10.10	18.22570	30.10	0.00	2.86	3.39	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
10.00	18.22570	30.10	0.00	2.86	3.38	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
9.90	18.22570	30.10	0.00	2.87	3.37	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
9.80	18.22570	30.10	0.00	2.87	3.36	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
9.70	18.22570	30.10	0.00	2.87	3.35	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
9.60	18.22570	30.10	0.00	2.87	3.33	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
9.50	18.22570	30.10	0.00	2.87	3.32	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
9.40	18.22570	30.10	0.00	2.87	3.31	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
9.30	18.22570	30.10	0.00	2.87	3.30	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
9.20	18.22570	30.10	0.00	2.87	3.29	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
9.10	18.22570	30.10	0.00	2.87	3.28	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
9.00	18.22570	30.10	0.00	2.87	3.27	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
8.90	18.22570	30.10	0.00	2.87	3.25	0.00	1.59	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
8.80	18.22570	30.10	0.00	2.88	3.24	0.00	1.60	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
8.70	18.22570	30.10	0.00	2.88	3.23	0.00	1.60	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
8.60	18.22570	30.10	0.00	2.88	3.22	0.00	1.60	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
8.50	18.22570	30.10	0.00	2.88	3.21	0.00	1.60	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
8.40	18.22570	30.10	0.00	2.88	3.20	0.00	1.60	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
8.30	18.22570	30.10	0.00	2.88	3.19	0.00	1.60	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
8.20	18.22570	30.10	0.00	2.88	3.17	0.00	1.60	0.09	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
8.10	18.22570	30.10	0.00	2.89	3.16	0.00	1.60	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
8.00	18.22570	30.10	0.00	2.89	3.15	0.00	1.60	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
7.90	18.22570	30.10	0.00	2.89	3.14	0.00	1.60	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
7.80	18.22570	30.10	0.00	2.89	3.13	0.00	1.60	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
7.70	18.22570	30.10	0.00	2.89	3.12	0.00	1.60	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
7.60	18.22570	30.10	0.00	2.89	3.11	0.00	1.60	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
7.50	18.22570	30.10	0.00	2.89	3.10	0.00	1.60	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
7.40	18.22570	30.10	0.00	2.90	3.09	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32

7.30	18.22570	30.10	0.00	2.90	3.07	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
7.20	18.22570	30.10	0.00	2.90	3.06	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
7.10	18.22570	30.10	0.00	2.90	3.05	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
7.00	18.22570	30.10	0.00	2.90	3.04	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
6.90	18.22570	30.10	0.00	2.90	3.03	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
6.80	18.22570	30.10	0.00	2.91	3.02	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
6.70	18.22570	30.10	0.00	2.91	3.01	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
6.60	18.22570	30.10	0.00	2.91	3.00	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
6.50	18.22570	30.10	0.00	2.91	2.99	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
6.40	18.22570	30.10	0.00	2.91	2.98	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
6.30	18.22570	30.10	0.00	2.92	2.97	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
6.20	18.22570	30.10	0.00	2.92	2.96	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
6.10	18.22570	30.10	0.00	2.92	2.95	0.00	1.61	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
6.00	18.22570	30.10	0.00	2.92	2.94	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
5.90	18.22570	30.10	0.00	2.92	2.93	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
5.80	18.22570	30.10	0.00	2.93	2.92	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
5.70	18.22570	30.10	0.00	2.93	2.91	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
5.60	18.22570	30.10	0.00	2.93	2.90	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
5.50	18.22570	30.10	0.00	2.93	2.89	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
5.40	18.22570	30.10	0.00	2.93	2.88	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
5.30	18.22570	30.10	0.00	2.94	2.87	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
5.20	18.22570	30.10	0.00	2.94	2.86	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
5.10	18.22570	30.10	0.00	2.94	2.85	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
5.00	18.22570	30.10	0.00	2.94	2.84	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
4.90	18.22570	30.10	0.00	2.94	2.83	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
4.80	18.22570	30.10	0.00	2.95	2.82	0.00	1.62	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
4.70	18.22570	30.10	0.00	2.95	2.81	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
4.60	18.22570	30.10	0.00	2.95	2.80	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
4.50	18.22570	30.10	0.00	2.95	2.79	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
4.40	18.22570	30.10	0.00	2.96	2.78	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
4.30	18.22570	30.10	0.00	2.96	2.77	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
4.20	18.22570	30.10	0.00	2.96	2.76	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
4.10	18.22570	30.10	0.00	2.96	2.75	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
4.00	18.22570	30.10	0.00	2.97	2.74	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
3.90	18.22570	30.10	0.00	2.97	2.73	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
3.80	18.22570	30.10	0.00	2.97	2.72	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
3.70	18.22570	30.10	0.00	2.97	2.71	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
3.60	18.22570	30.10	0.00	2.98	2.70	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
3.50	18.22570	30.10	0.00	2.98	2.69	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
3.40	18.22570	30.10	0.00	2.98	2.68	0.00	1.63	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
3.30	18.22570	30.10	0.00	2.98	2.67	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
3.20	18.22570	30.10	0.00	2.99	2.66	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
3.10	18.22570	30.10	0.00	2.99	2.65	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
3.00	18.22570	30.10	0.00	2.99	2.64	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
2.90	18.22570	30.10	0.00	2.99	2.63	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
2.80	18.22570	30.10	0.00	3.00	2.62	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
2.70	18.22570	30.10	0.00	3.00	2.61	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
2.60	18.22570	30.10	0.00	3.00	2.61	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
2.50	18.22570	30.10	0.00	3.01	2.60	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
2.40	18.22570	30.10	0.00	3.01	2.59	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32

2.30	18.22570	30.10	0.00	3.01	2.58	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
2.20	18.22570	30.10	0.00	3.01	2.57	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
2.10	18.22570	30.10	0.00	3.02	2.56	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
2.00	18.22570	30.10	0.00	3.02	2.55	0.00	1.64	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
1.90	18.22570	30.10	0.00	3.02	2.54	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
1.80	18.22570	30.10	0.00	3.03	2.53	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
1.70	18.22570	30.10	0.00	3.03	2.52	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
1.60	18.22570	30.10	0.00	3.03	2.51	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
1.50	18.22570	30.10	0.00	3.03	2.51	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
1.40	18.22570	30.10	0.00	3.04	2.50	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
1.30	18.22570	30.10	0.00	3.04	2.49	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.35	1.32
1.20	18.22570	30.10	0.00	3.04	2.48	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32
1.10	18.22570	30.10	0.00	3.05	2.47	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32
1.00	18.22570	30.10	0.00	3.05	2.46	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32
0.90	18.22570	30.10	0.00	3.05	2.45	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32
0.80	18.22570	30.10	0.00	3.06	2.44	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32
0.70	18.22570	30.10	0.00	3.06	2.44	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32
0.60	18.22570	30.10	0.00	3.06	2.43	0.00	1.65	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32
0.50	18.22570	30.10	0.00	3.07	2.42	0.00	1.66	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32
0.40	18.22570	30.10	0.00	3.07	2.41	0.00	1.66	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32
0.30	18.22570	30.10	0.00	3.07	2.40	0.00	1.66	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32
0.20	18.22570	30.10	0.00	3.07	2.39	0.00	1.66	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32
0.10	18.22570	30.10	0.00	3.08	2.39	0.00	1.66	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32
0.00	18.22570	30.10	0.00	3.08	2.38	0.00	1.66	0.10	0.00	0.39	0.32	0.00	0.00	0.00	0.36	1.32

CONDENSED CAPSULE SUMMARY FOR Bayou Poydras #1

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3	CHLA	RATE	DECA	SETT DECA	SETT DECA	SOD
km	m≥/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L µg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m≤/d
HDWTR	0.06597	27.00	0.00	0.30	30.67	0.00	1.54	0.20	0.00					
10.20	0.06597	27.00	0.00	1.11	30.62	0.00	1.54	0.20	0.00	6.40	0.08	0.00	0.00	0.00	0.03	0.86
10.10	0.06597	27.00	0.00	1.77	30.54	0.00	1.54	0.20	0.00	6.40	0.12	0.00	0.00	0.00	0.15	1.37
10.00	0.06597	27.00	0.00	2.33	30.45	0.00	1.54	0.20	0.00	6.40	0.14	0.00	0.00	0.00	0.25	1.55
9.90	0.06597	27.00	0.00	2.82	30.37	0.00	1.54	0.20	0.00	6.40	0.14	0.00	0.00	0.00	0.27	1.55
9.80	0.06597	27.00	0.00	3.25	30.28	0.00	1.54	0.20	0.00	6.40	0.14	0.00	0.00	0.00	0.28	1.55
9.70	0.06597	27.00	0.00	3.64	30.19	0.00	1.54	0.20	0.00	6.40	0.14	0.00	0.00	0.00	0.29	1.55
9.60	0.06597	27.00	0.00	3.97	30.10	0.00	1.53	0.20	0.00	6.40	0.14	0.00	0.00	0.00	0.30	1.55
9.50	0.06597	27.00	0.00	4.27	30.02	0.00	1.53	0.20	0.00	6.40	0.14	0.00	0.00	0.00	0.31	1.55
9.40	0.06597	27.00	0.00	4.53	29.93	0.00	1.53	0.20	0.00	6.40	0.14	0.00	0.00	0.00	0.31	1.55
9.30	0.06597	27.00	0.00	4.76	29.84	0.00	1.53	0.20	0.00	6.40	0.14	0.00	0.00	0.00	0.31	1.55
9.20	0.06597	27.00	0.00	4.97	29.76	0.00	1.53	0.20	0.00	6.40	0.14	0.00	0.00	0.00	0.32	1.55
9.10	0.06597	27.00	0.00	5.15	29.67	0.00	1.53	0.20	0.00	6.40	0.14	0.00	0.00	0.00	0.32	1.55
9.00	0.06597	27.00	0.00	5.31	29.58	0.00	1.53	0.20	0.00	6.40	0.14	0.00	0.00	0.00	0.32	1.55
8.90	0.06597	27.00	0.00	5.45	29.50	0.00	1.53	0.19	0.00	6.40	0.14	0.00	0.00	0.00	0.32	1.55
8.80	0.06597	27.00	0.00	5.57	29.41	0.00	1.53	0.19	0.00	6.40	0.14	0.00	0.00	0.00	0.33	1.55
8.70	0.06597	27.00	0.00	5.68	29.33	0.00	1.53	0.19	0.00	6.40	0.14	0.00	0.00	0.00	0.33	1.55
8.60	0.06597	27.00	0.00	5.77	29.24	0.00	1.53	0.19	0.00	6.40	0.14	0.00	0.00	0.00	0.33	1.55
8.50	0.06597	27.00	0.00	5.86	29.16	0.00	1.53	0.19	0.00	6.40	0.14	0.00	0.00	0.00	0.33	1.55
8.40	0.06597	27.00	0.00	5.93	29.08	0.00	1.53	0.19	0.00	6.40	0.14	0.00	0.00	0.00	0.33	1.55

8.30	0.06597	27.00	0.00	6.00	28.99	0.00	1.53	0.19	0.00	6.40	0.14	0.00	0.00	0.00	0.33	1.55
8.20	0.06597	27.00	0.00	6.06	28.91	0.00	1.52	0.19	0.00	6.40	0.14	0.00	0.00	0.00	0.33	1.55
8.10	0.06597	27.00	0.00	6.11	28.82	0.00	1.52	0.19	0.00	6.40	0.14	0.00	0.00	0.00	0.33	1.55
8.00	0.06610	27.00	0.00	6.16	28.77	0.00	1.52	0.19	0.00	6.41	0.14	0.00	0.00	0.00	0.33	1.55
7.90	0.06610	27.00	0.00	6.20	28.69	0.00	1.52	0.19	0.00	6.41	0.14	0.00	0.00	0.00	0.33	1.55
7.80	0.06610	27.00	0.00	6.23	28.61	0.00	1.52	0.19	0.00	6.41	0.14	0.00	0.00	0.00	0.33	1.55
7.70	0.06613	27.00	0.00	6.27	28.53	0.00	1.52	0.19	0.00	6.41	0.14	0.00	0.00	0.00	0.33	1.55
7.60	0.06613	27.00	0.00	6.29	28.45	0.00	1.52	0.19	0.00	6.41	0.14	0.00	0.00	0.00	0.33	1.55
7.50	0.06613	27.00	0.00	6.32	28.37	0.00	1.52	0.19	0.00	6.41	0.14	0.00	0.00	0.00	0.33	1.55
7.40	0.06613	27.00	0.00	6.34	28.29	0.00	1.52	0.19	0.00	6.41	0.14	0.00	0.00	0.00	0.33	1.55
7.30	0.06613	27.00	0.00	6.36	28.20	0.00	1.52	0.19	0.00	6.41	0.14	0.00	0.00	0.00	0.33	1.55
7.20	0.06613	27.00	0.00	6.38	28.12	0.00	1.52	0.19	0.00	6.41	0.14	0.00	0.00	0.00	0.34	1.55
7.10	0.06613	27.00	0.00	6.40	28.04	0.00	1.52	0.19	0.00	6.41	0.14	0.00	0.00	0.00	0.34	1.55
7.00	0.06641	27.00	0.00	6.41	27.97	0.00	1.52	0.19	0.00	6.42	0.14	0.00	0.00	0.00	0.34	1.55
6.90	0.06641	27.00	0.00	6.42	27.89	0.00	1.51	0.19	0.00	6.42	0.14	0.00	0.00	0.00	0.34	1.55
6.80	0.06641	27.00	0.00	6.43	27.81	0.00	1.51	0.19	0.00	6.42	0.14	0.00	0.00	0.00	0.34	1.55
6.70	0.06641	27.00	0.00	6.44	27.73	0.00	1.51	0.19	0.00	6.42	0.14	0.00	0.00	0.00	0.34	1.55
6.60	0.06641	27.00	0.00	6.45	27.65	0.00	1.51	0.19	0.00	6.42	0.14	0.00	0.00	0.00	0.34	1.55
6.50	0.06641	27.00	0.00	6.46	27.57	0.00	1.51	0.19	0.00	6.42	0.14	0.00	0.00	0.00	0.34	1.55
6.40	0.06648	27.00	0.00	6.47	27.51	0.00	1.51	0.19	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
6.30	0.06648	27.00	0.00	6.48	27.43	0.00	1.51	0.19	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
6.20	0.06648	27.00	0.00	6.48	27.35	0.00	1.51	0.19	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
6.10	0.06648	27.00	0.00	6.49	27.27	0.00	1.51	0.19	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
6.00	0.06648	27.00	0.00	6.50	27.19	0.00	1.51	0.19	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
5.90	0.06648	27.00	0.00	6.50	27.12	0.00	1.51	0.19	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
5.80	0.06648	27.00	0.00	6.51	27.04	0.00	1.51	0.19	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
5.70	0.06648	27.00	0.00	6.51	26.96	0.00	1.51	0.19	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
5.60	0.06648	27.00	0.00	6.52	26.88	0.00	1.51	0.19	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
5.50	0.06648	27.00	0.00	6.52	26.81	0.00	1.50	0.18	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
5.40	0.06648	27.00	0.00	6.52	26.73	0.00	1.50	0.18	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
5.30	0.06648	27.00	0.00	6.53	26.65	0.00	1.50	0.18	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
5.20	0.06648	27.00	0.00	6.53	26.58	0.00	1.50	0.18	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
5.10	0.06648	27.00	0.00	6.53	26.50	0.00	1.50	0.18	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
5.00	0.06648	27.00	0.00	6.54	26.42	0.00	1.50	0.18	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
4.90	0.06648	27.00	0.00	6.54	26.35	0.00	1.50	0.18	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
4.80	0.06648	27.00	0.00	6.54	26.27	0.00	1.50	0.18	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
4.70	0.06648	27.00	0.00	6.54	26.20	0.00	1.50	0.18	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
4.60	0.06648	27.00	0.00	6.55	26.12	0.00	1.50	0.18	0.00	6.43	0.14	0.00	0.00	0.00	0.34	1.55
4.50	0.07058	27.04	0.00	6.10	26.52	0.00	1.57	0.17	0.00	1.33	0.14	0.00	0.00	0.00	0.33	1.40
4.40	0.07469	27.09	0.00	5.74	26.88	0.00	1.64	0.16	0.00	1.33	0.14	0.00	0.00	0.00	0.33	1.40
4.30	0.07879	27.13	0.00	5.44	27.19	0.00	1.69	0.15	0.00	1.33	0.14	0.00	0.00	0.00	0.33	1.41
4.20	0.08465	27.17	0.00	5.18	27.52	0.00	1.74	0.17	0.00	1.34	0.14	0.00	0.00	0.00	0.33	1.41
4.10	0.08928	27.22	0.00	4.97	27.78	0.00	1.79	0.17	0.00	1.34	0.14	0.00	0.00	0.00	0.32	1.42
4.00	0.09339	27.26	0.00	4.79	28.00	0.00	1.83	0.16	0.00	1.35	0.14	0.00	0.00	0.00	0.32	1.42
3.90	0.09749	27.30	0.00	4.65	28.19	0.00	1.87	0.15	0.00	1.38	0.14	0.00	0.00	0.00	0.32	1.43
3.80	0.10159	27.35	0.00	4.52	28.37	0.00	1.90	0.15	0.00	1.41	0.14	0.00	0.00	0.00	0.32	1.43
3.70	0.10570	27.39	0.00	4.42	28.53	0.00	1.93	0.14	0.00	1.44	0.14	0.00	0.00	0.00	0.32	1.43
3.60	0.10980	27.43	0.00	4.34	28.68	0.00	1.96	0.14	0.00	1.47	0.14	0.00	0.00	0.00	0.32	1.44
3.50	0.11391	27.48	0.00	4.27	28.82	0.00	1.99	0.13	0.00	1.50	0.14	0.00	0.00	0.00	0.32	1.44
3.40	0.11801	27.52	0.00	4.21	28.95	0.00	2.02	0.13	0.00	1.53	0.14	0.00	0.00	0.00	0.32	1.45

3.30	0.12212	27.57	0.00	4.16	29.07	0.00	2.04	0.12	0.00	1.56	0.14	0.00	0.00	0.00	0.32	1.45
3.20	0.12622	27.61	0.00	4.12	29.17	0.00	2.06	0.12	0.00	1.58	0.14	0.00	0.00	0.00	0.32	1.45
3.10	0.13033	27.65	0.00	4.09	29.27	0.00	2.09	0.12	0.00	1.61	0.14	0.00	0.00	0.00	0.32	1.46
3.00	0.13443	27.70	0.00	4.06	29.37	0.00	2.11	0.11	0.00	1.64	0.14	0.00	0.00	0.00	0.32	1.46
2.90	0.13853	27.74	0.00	4.04	29.46	0.00	2.12	0.11	0.00	1.66	0.14	0.00	0.00	0.00	0.32	1.47
2.80	0.14264	27.78	0.00	4.03	29.54	0.00	2.14	0.11	0.00	1.69	0.14	0.00	0.00	0.00	0.32	1.47
2.70	0.14674	27.83	0.00	4.02	29.61	0.00	2.16	0.11	0.00	1.71	0.14	0.00	0.00	0.00	0.32	1.47
2.60	0.15085	27.87	0.00	4.01	29.68	0.00	2.17	0.10	0.00	1.74	0.14	0.00	0.00	0.00	0.32	1.48
2.50	0.15495	27.91	0.00	4.00	29.75	0.00	2.19	0.10	0.00	1.76	0.14	0.00	0.00	0.00	0.32	1.48
2.40	0.15906	27.96	0.00	4.00	29.81	0.00	2.20	0.10	0.00	1.79	0.14	0.00	0.00	0.00	0.33	1.49
2.30	0.16316	28.00	0.00	4.00	29.87	0.00	2.22	0.10	0.00	1.81	0.14	0.00	0.00	0.00	0.33	1.49
2.20	0.16726	28.04	0.00	4.00	29.93	0.00	2.23	0.10	0.00	1.84	0.14	0.00	0.00	0.00	0.33	1.49
2.10	0.17137	28.09	0.00	4.01	29.98	0.00	2.24	0.09	0.00	1.86	0.14	0.00	0.00	0.00	0.33	1.50
2.00	0.17547	28.13	0.00	4.01	30.03	0.00	2.25	0.09	0.00	1.88	0.15	0.00	0.00	0.00	0.33	1.50
1.90	0.17958	28.17	0.00	4.02	30.08	0.00	2.26	0.09	0.00	1.91	0.15	0.00	0.00	0.00	0.33	1.51
1.80	0.18368	28.22	0.00	4.02	30.12	0.00	2.27	0.09	0.00	1.93	0.15	0.00	0.00	0.00	0.33	1.51
1.70	0.18779	28.26	0.00	4.03	30.16	0.00	2.28	0.09	0.00	1.95	0.15	0.00	0.00	0.00	0.33	1.51
1.60	0.19189	28.30	0.00	4.04	30.20	0.00	2.29	0.09	0.00	1.98	0.15	0.00	0.00	0.00	0.34	1.52
1.50	0.19599	28.35	0.00	4.05	30.24	0.00	2.30	0.09	0.00	2.00	0.15	0.00	0.00	0.00	0.34	1.52
1.40	0.20010	28.39	0.00	4.06	30.28	0.00	2.31	0.09	0.00	2.02	0.15	0.00	0.00	0.00	0.34	1.53
1.30	0.20420	28.43	0.00	4.07	30.31	0.00	2.32	0.08	0.00	2.04	0.15	0.00	0.00	0.00	0.34	1.53
1.20	0.20831	28.48	0.00	4.08	30.34	0.00	2.33	0.08	0.00	2.06	0.15	0.00	0.00	0.00	0.34	1.54
1.10	0.21241	28.52	0.00	4.09	30.37	0.00	2.33	0.08	0.00	2.09	0.15	0.00	0.00	0.00	0.34	1.54
1.00	0.21652	28.57	0.00	4.10	30.40	0.00	2.34	0.08	0.00	2.11	0.15	0.00	0.00	0.00	0.34	1.54
0.90	0.22062	28.61	0.00	4.11	30.43	0.00	2.35	0.08	0.00	2.13	0.15	0.00	0.00	0.00	0.35	1.55
0.80	0.22473	28.65	0.00	4.12	30.45	0.00	2.36	0.08	0.00	2.15	0.15	0.00	0.00	0.00	0.35	1.55
0.70	0.22883	28.70	0.00	4.14	30.48	0.00	2.36	0.08	0.00	2.17	0.15	0.00	0.00	0.00	0.35	1.56
0.60	0.23293	28.74	0.00	4.15	30.50	0.00	2.37	0.08	0.00	2.19	0.15	0.00	0.00	0.00	0.35	1.56
0.50	0.23704	28.78	0.00	4.16	30.53	0.00	2.37	0.08	0.00	2.21	0.15	0.00	0.00	0.00	0.35	1.56
0.40	0.24114	28.83	0.00	4.17	30.55	0.00	2.38	0.08	0.00	2.23	0.15	0.00	0.00	0.00	0.35	1.57
0.30	0.24525	28.87	0.00	4.18	30.57	0.00	2.39	0.08	0.00	2.26	0.15	0.00	0.00	0.00	0.35	1.57
0.20	0.24935	28.91	0.00	4.19	30.59	0.00	2.39	0.08	0.00	2.28	0.15	0.00	0.00	0.00	0.36	1.58
0.10	0.25346	28.96	0.00	4.20	30.61	0.00	2.40	0.08	0.00	2.30	0.15	0.00	0.00	0.00	0.36	1.58
0.00	0.25756	29.00	0.00	4.21	30.63	0.00	2.40	0.07	0.00	2.32	0.15	0.00	0.00	0.00	0.36	1.59

CONDENSED CAPSULE SUMMARY FOR Chamberlin Canal #1

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3 NH3	CHLA	RATE	DECA	SETT DECA	SETT DECA	SOD
km	m≥/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	g/m≤/d
HDWTR	0.00050	26.30	0.00	2.10	9.28	0.00	1.18	0.10	0.00					
7.40	0.00055	26.38	0.00	4.65	9.86	0.00	1.28	0.09	0.00	7.90	0.17	0.00	0.00	0.00	0.30	1.94
7.30	0.00059	26.46	0.00	5.16	10.32	0.00	1.36	0.08	0.00	7.91	0.17	0.00	0.00	0.00	0.31	1.95
7.20	0.00064	26.55	0.00	5.25	10.68	0.00	1.42	0.07	0.00	7.94	0.18	0.00	0.00	0.00	0.31	1.96
7.10	0.00068	26.63	0.00	5.32	10.98	0.00	1.48	0.06	0.00	8.23	0.18	0.00	0.00	0.00	0.31	1.97
7.00	0.00073	26.71	0.00	5.38	11.23	0.00	1.54	0.06	0.00	8.51	0.18	0.00	0.00	0.00	0.32	1.98
6.90	0.00077	26.79	0.00	5.44	11.43	0.00	1.58	0.06	0.00	8.79	0.18	0.00	0.00	0.00	0.32	1.99
6.80	0.00082	26.87	0.00	5.49	11.60	0.00	1.62	0.05	0.00	9.05	0.18	0.00	0.00	0.00	0.32	2.00
6.70	0.00086	26.95	0.00	5.53	11.74	0.00	1.66	0.05	0.00	9.32	0.18	0.00	0.00	0.00	0.33	2.01
6.60	0.00091	27.04	0.00	5.57	11.86	0.00	1.69	0.05	0.00	9.57	0.18	0.00	0.00	0.00	0.33	2.02

6.50	0.00095	27.12	0.00	5.61	11.96	0.00	1.72	0.05	0.00	9.82	0.18	0.00	0.00	0.00	0.33	2.04
6.40	0.00100	27.20	0.00	5.64	12.05	0.00	1.74	0.05	0.00	10.07	0.18	0.00	0.00	0.00	0.33	2.05
6.30	0.00105	27.28	0.00	5.67	12.13	0.00	1.77	0.05	0.00	10.31	0.18	0.00	0.00	0.00	0.34	2.06
6.20	0.00109	27.36	0.00	5.70	12.19	0.00	1.79	0.05	0.00	10.55	0.18	0.00	0.00	0.00	0.34	2.07
6.10	0.00114	27.45	0.00	5.72	12.25	0.00	1.81	0.04	0.00	10.78	0.18	0.00	0.00	0.00	0.34	2.08
6.00	0.00118	27.53	0.00	5.74	12.29	0.00	1.83	0.04	0.00	11.01	0.18	0.00	0.00	0.00	0.34	2.09
5.90	0.00123	27.61	0.00	5.77	12.34	0.00	1.85	0.04	0.00	11.24	0.18	0.00	0.00	0.00	0.35	2.10
5.80	0.00127	27.69	0.00	5.78	12.37	0.00	1.86	0.04	0.00	11.46	0.19	0.00	0.00	0.00	0.35	2.11
5.70	0.00132	27.77	0.00	5.79	12.40	0.00	1.88	0.04	0.00	11.57	0.19	0.00	0.00	0.00	0.35	2.12
5.60	0.00136	27.85	0.00	5.78	12.43	0.00	1.89	0.04	0.00	11.59	0.19	0.00	0.00	0.00	0.35	2.13
5.50	0.00141	27.94	0.00	5.76	12.45	0.00	1.90	0.04	0.00	11.60	0.19	0.00	0.00	0.00	0.36	2.14
5.40	0.00145	28.02	0.00	5.74	12.47	0.00	1.92	0.04	0.00	11.62	0.19	0.00	0.00	0.00	0.36	2.15
5.30	0.00150	28.10	0.00	5.73	12.49	0.00	1.93	0.04	0.00	11.64	0.19	0.00	0.00	0.00	0.36	2.17
5.20	0.00155	28.18	0.00	5.71	12.50	0.00	1.94	0.04	0.00	11.65	0.19	0.00	0.00	0.00	0.36	2.18
5.10	0.00159	28.26	0.00	5.69	12.51	0.00	1.95	0.04	0.00	11.67	0.19	0.00	0.00	0.00	0.36	2.19
5.00	0.00164	28.35	0.00	5.67	12.52	0.00	1.96	0.04	0.00	11.69	0.19	0.00	0.00	0.00	0.37	2.20
4.90	0.00168	28.43	0.00	5.65	12.53	0.00	1.96	0.04	0.00	11.70	0.19	0.00	0.00	0.00	0.37	2.21
4.80	0.00173	28.51	0.00	5.63	12.53	0.00	1.97	0.04	0.00	11.72	0.19	0.00	0.00	0.00	0.37	2.22
4.70	0.00177	28.59	0.00	5.62	12.54	0.00	1.98	0.04	0.00	11.74	0.19	0.00	0.00	0.00	0.37	2.23
4.60	0.00182	28.67	0.00	5.60	12.54	0.00	1.99	0.04	0.00	11.75	0.19	0.00	0.00	0.00	0.37	2.24
4.50	0.00186	28.75	0.00	5.58	12.54	0.00	2.00	0.04	0.00	11.77	0.19	0.00	0.00	0.00	0.38	2.26
4.40	0.00191	28.84	0.00	5.56	12.54	0.00	2.00	0.04	0.00	11.79	0.20	0.00	0.00	0.00	0.38	2.27
4.30	0.00195	28.92	0.00	5.54	12.54	0.00	2.01	0.04	0.00	11.80	0.20	0.00	0.00	0.00	0.38	2.28
4.20	0.00200	29.00	0.00	5.53	12.54	0.00	2.01	0.04	0.00	11.82	0.20	0.00	0.00	0.00	0.38	2.29
4.10	0.00427	29.05	0.00	4.12	20.07	0.00	2.01	0.68	1.57	2.76	0.20	0.00	0.00	0.00	0.36	2.30
4.00	0.00439	29.11	0.00	3.70	18.74	0.00	2.01	0.59	3.14	2.76	0.20	0.00	0.00	0.00	0.35	2.31
3.90	0.00451	29.16	0.00	3.58	17.57	0.00	2.01	0.52	4.71	2.77	0.20	0.00	0.00	0.00	0.35	2.32
3.80	0.00463	29.22	0.00	3.60	16.53	0.00	2.01	0.45	6.29	2.77	0.20	0.00	0.00	0.00	0.35	2.32
3.70	0.00475	29.27	0.00	3.67	15.60	0.00	2.01	0.40	7.86	2.77	0.20	0.00	0.00	0.00	0.35	2.33
3.60	0.00486	29.33	0.00	3.76	14.78	0.00	2.01	0.35	9.43	2.77	0.20	0.00	0.00	0.00	0.36	2.34
3.50	0.00498	29.38	0.00	3.85	14.05	0.00	2.01	0.31	11.00	2.78	0.20	0.00	0.00	0.00	0.36	2.35
3.40	0.00510	29.44	0.00	3.94	13.39	0.00	2.01	0.28	12.57	2.78	0.20	0.00	0.00	0.00	0.36	2.36
3.30	0.00522	29.49	0.00	4.03	12.80	0.00	2.02	0.25	14.14	2.78	0.20	0.00	0.00	0.00	0.37	2.36
3.20	0.00534	29.55	0.00	4.11	12.27	0.00	2.02	0.23	15.71	2.78	0.20	0.00	0.00	0.00	0.37	2.37
3.10	0.00546	29.60	0.00	4.18	11.79	0.00	2.02	0.20	17.29	2.79	0.20	0.00	0.00	0.00	0.38	2.38
3.00	0.00558	29.66	0.00	4.26	11.35	0.00	2.02	0.19	18.86	2.79	0.20	0.00	0.00	0.00	0.38	2.39
2.90	0.00570	29.71	0.00	4.32	10.96	0.00	2.02	0.17	20.43	2.79	0.20	0.00	0.00	0.00	0.38	2.40
2.80	0.00582	29.77	0.00	4.39	10.60	0.00	2.02	0.16	22.00	2.80	0.20	0.00	0.00	0.00	0.39	2.40
2.70	0.00594	29.82	0.00	4.45	10.28	0.00	2.02	0.14	23.57	2.80	0.20	0.00	0.00	0.00	0.39	2.41
2.60	0.00605	29.88	0.00	4.51	9.98	0.00	2.02	0.13	25.14	2.80	0.20	0.00	0.00	0.00	0.39	2.42
2.50	0.00617	29.93	0.00	4.56	9.71	0.00	2.02	0.12	26.71	2.80	0.21	0.00	0.00	0.00	0.39	2.43
2.40	0.00629	29.99	0.00	4.62	9.46	0.00	2.02	0.12	28.29	2.81	0.21	0.00	0.00	0.00	0.40	2.44
2.30	0.00641	30.04	0.00	4.67	9.24	0.00	2.02	0.11	29.86	2.81	0.21	0.00	0.00	0.00	0.40	2.45
2.20	0.00653	30.10	0.00	4.72	9.03	0.00	2.02	0.10	31.43	2.81	0.21	0.00	0.00	0.00	0.40	2.45
2.10	0.00665	30.15	0.00	4.76	8.84	0.00	2.02	0.10	33.00	2.81	0.21	0.00	0.00	0.00	0.41	2.46
2.00	0.00677	30.20	0.00	4.81	8.66	0.00	2.02	0.09	34.57	2.82	0.21	0.00	0.00	0.00	0.41	2.47
1.90	0.00689	30.26	0.00	4.85	8.49	0.00	2.02	0.09	36.14	2.82	0.21	0.00	0.00	0.00	0.41	2.48
1.80	0.00701	30.31	0.00	4.90	8.34	0.00	2.02	0.08	37.71	2.82	0.21	0.00	0.00	0.00	0.41	2.49
1.70	0.00713	30.37	0.00	4.94	8.20	0.00	2.02	0.08	39.29	2.82	0.21	0.00	0.00	0.00	0.42	2.50
1.60	0.00725	30.42	0.00	4.98	8.07	0.00	2.02	0.08	40.86	2.83	0.21	0.00	0.00	0.00	0.42	2.51

1.50	0.00736	30.48	0.00	5.02	7.95	0.00	2.02	0.07	42.43	2.83	0.21	0.00	0.00	0.00	0.42	2.51
1.40	0.00748	30.53	0.00	5.06	7.84	0.00	2.02	0.07	44.00	2.83	0.21	0.00	0.00	0.00	0.42	2.52
1.30	0.00760	30.59	0.00	5.10	7.74	0.00	2.02	0.07	45.57	2.84	0.21	0.00	0.00	0.00	0.43	2.53
1.20	0.00772	30.64	0.00	5.14	7.64	0.00	2.02	0.07	47.14	2.84	0.21	0.00	0.00	0.00	0.43	2.54
1.10	0.00784	30.70	0.00	5.18	7.55	0.00	2.02	0.07	48.71	2.84	0.21	0.00	0.00	0.00	0.43	2.55
1.00	0.00796	30.75	0.00	5.22	7.46	0.00	2.02	0.06	50.29	2.84	0.21	0.00	0.00	0.00	0.44	2.56
0.90	0.00808	30.81	0.00	5.26	7.38	0.00	2.02	0.06	51.86	2.85	0.21	0.00	0.00	0.00	0.44	2.57
0.80	0.00820	30.86	0.00	5.29	7.31	0.00	2.02	0.06	53.43	2.85	0.21	0.00	0.00	0.00	0.44	2.58
0.70	0.00832	30.92	0.00	5.33	7.23	0.00	2.02	0.06	55.00	2.85	0.21	0.00	0.00	0.00	0.44	2.59
0.60	0.00844	30.97	0.00	5.37	7.17	0.00	2.02	0.06	56.57	2.85	0.22	0.00	0.00	0.00	0.45	2.59
0.50	0.00855	31.03	0.00	5.41	7.10	0.00	2.02	0.06	58.14	2.86	0.22	0.00	0.00	0.00	0.45	2.60
0.40	0.00867	31.08	0.00	5.44	7.05	0.00	2.02	0.06	59.71	2.86	0.22	0.00	0.00	0.00	0.45	2.61
0.30	0.00879	31.14	0.00	5.48	6.99	0.00	2.02	0.06	61.29	2.86	0.22	0.00	0.00	0.00	0.45	2.62
0.20	0.00891	31.19	0.00	5.51	6.94	0.00	2.02	0.06	62.86	2.86	0.22	0.00	0.00	0.00	0.46	2.63
0.10	0.00903	31.25	0.00	5.55	6.89	0.00	2.02	0.05	64.43	2.87	0.22	0.00	0.00	0.00	0.46	2.64
0.00	0.00915	31.30	0.00	5.59	6.84	0.00	2.02	0.05	66.00	2.87	0.22	0.00	0.00	0.00	0.46	2.65

CONDENSED CAPSULE SUMMARY FOR Intracoastal Waterwa

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3 NH3	CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m≥/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m≤/d
HDWTR	7.53000	29.80	0.00	7.40	2.20	0.00	1.10	0.03	0.00							
13.30	7.53000	29.80	0.00	7.37	2.19	0.00	1.10	0.03	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
13.20	7.53000	29.81	0.00	7.35	2.19	0.00	1.10	0.03	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
13.10	7.53000	29.81	0.00	7.32	2.18	0.00	1.10	0.03	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
13.00	7.53000	29.82	0.00	7.30	2.18	0.00	1.10	0.03	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
12.90	7.53000	29.82	0.00	7.27	2.17	0.00	1.10	0.03	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
12.80	7.53000	29.83	0.00	7.25	2.17	0.00	1.10	0.03	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
12.70	7.53000	29.83	0.00	7.22	2.16	0.00	1.10	0.03	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
12.60	7.53000	29.84	0.00	7.20	2.16	0.00	1.11	0.03	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
12.50	7.53105	29.84	0.00	7.17	2.16	0.00	1.11	0.03	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
12.40	7.53105	29.84	0.00	7.15	2.15	0.00	1.11	0.03	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
12.30	7.53105	29.85	0.00	7.12	2.15	0.00	1.11	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
12.20	7.53105	29.85	0.00	7.10	2.14	0.00	1.11	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
12.10	7.53105	29.86	0.00	7.07	2.14	0.00	1.11	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
12.00	7.53105	29.86	0.00	7.05	2.13	0.00	1.11	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
11.90	7.53105	29.87	0.00	7.03	2.13	0.00	1.11	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
11.80	7.53105	29.87	0.00	7.01	2.12	0.00	1.11	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
11.70	7.53105	29.88	0.00	6.98	2.12	0.00	1.11	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
11.60	7.53105	29.88	0.00	6.96	2.11	0.00	1.11	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
11.50	7.53105	29.89	0.00	6.94	2.11	0.00	1.11	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
11.40	7.53105	29.89	0.00	6.92	2.10	0.00	1.11	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
11.30	7.53105	29.89	0.00	6.89	2.10	0.00	1.11	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
11.20	7.53105	29.90	0.00	6.87	2.09	0.00	1.11	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
11.10	7.53105	29.90	0.00	6.85	2.09	0.00	1.12	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
11.00	7.53105	29.91	0.00	6.83	2.08	0.00	1.12	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
10.90	7.53105	29.91	0.00	6.81	2.08	0.00	1.12	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
10.80	7.53105	29.92	0.00	6.79	2.07	0.00	1.12	0.04	0.00	0.28	0.20	0.00	0.00	0.00	0.43	0.93
10.70	7.53105	29.92	0.00	6.77	2.07	0.00	1.12	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.93

10.60	7.53105	29.93	0.00	6.75	2.07	0.00	1.12	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.93
10.50	7.53105	29.93	0.00	6.73	2.06	0.00	1.12	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.93
10.40	7.53105	29.93	0.00	6.71	2.06	0.00	1.12	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.93
10.30	7.53105	29.94	0.00	6.69	2.05	0.00	1.12	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.93
10.20	7.53105	29.94	0.00	6.67	2.05	0.00	1.12	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
10.10	7.53105	29.95	0.00	6.65	2.04	0.00	1.12	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
10.00	7.53105	29.95	0.00	6.63	2.04	0.00	1.12	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
9.90	7.53105	29.96	0.00	6.61	2.03	0.00	1.12	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
9.80	7.53105	29.96	0.00	6.59	2.03	0.00	1.12	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
9.70	7.53136	29.97	0.00	6.57	2.03	0.00	1.12	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
9.60	7.53136	29.97	0.00	6.55	2.02	0.00	1.12	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
9.50	7.53136	29.97	0.00	6.54	2.02	0.00	1.13	0.04	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
9.40	7.53136	29.98	0.00	6.52	2.01	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
9.30	7.53136	29.98	0.00	6.50	2.01	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
9.20	7.53136	29.99	0.00	6.48	2.01	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
9.10	7.53136	29.99	0.00	6.46	2.00	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
9.00	7.54450	30.00	0.00	6.44	2.01	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
8.90	7.54450	30.00	0.00	6.43	2.01	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
8.80	7.54450	30.01	0.00	6.41	2.00	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
8.70	7.54450	30.01	0.00	6.39	2.00	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
8.60	7.54450	30.01	0.00	6.37	2.00	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
8.50	7.54450	30.02	0.00	6.36	1.99	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
8.40	7.54450	30.02	0.00	6.34	1.99	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
8.30	7.54450	30.03	0.00	6.32	1.98	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
8.20	7.54450	30.03	0.00	6.31	1.98	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
8.10	7.54450	30.04	0.00	6.29	1.98	0.00	1.13	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
8.00	7.54450	30.04	0.00	6.27	1.97	0.00	1.14	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
7.90	7.54450	30.05	0.00	6.26	1.97	0.00	1.14	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
7.80	7.54450	30.05	0.00	6.24	1.96	0.00	1.14	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
7.70	7.54450	30.06	0.00	6.23	1.96	0.00	1.14	0.05	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
7.60	7.54450	30.06	0.00	6.21	1.96	0.00	1.14	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
7.50	7.54450	30.06	0.00	6.20	1.95	0.00	1.14	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
7.40	7.54450	30.07	0.00	6.18	1.95	0.00	1.14	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
7.30	7.54450	30.07	0.00	6.17	1.94	0.00	1.14	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
7.20	7.54450	30.08	0.00	6.15	1.94	0.00	1.14	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
7.10	7.54450	30.08	0.00	6.14	1.94	0.00	1.14	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
7.00	7.54450	30.09	0.00	6.12	1.93	0.00	1.14	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
6.90	7.54450	30.09	0.00	6.11	1.93	0.00	1.14	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
6.80	7.54450	30.10	0.00	6.09	1.93	0.00	1.14	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
6.70	7.54450	30.10	0.00	6.08	1.92	0.00	1.14	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
6.60	7.54450	30.10	0.00	6.06	1.92	0.00	1.14	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.94
6.50	7.54450	30.11	0.00	6.05	1.92	0.00	1.14	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
6.40	7.54450	30.11	0.00	6.04	1.91	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
6.30	7.54450	30.12	0.00	6.02	1.91	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
6.20	7.54450	30.12	0.00	6.01	1.91	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
6.10	7.54450	30.13	0.00	6.00	1.90	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
6.00	7.54450	30.13	0.00	5.98	1.90	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
5.90	7.54450	30.14	0.00	5.97	1.89	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
5.80	7.54450	30.14	0.00	5.96	1.89	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
5.70	7.54450	30.14	0.00	5.94	1.89	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95

5.60	7.54450	30.15	0.00	5.93	1.88	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
5.50	7.54450	30.15	0.00	5.92	1.88	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
5.40	7.54450	30.16	0.00	5.91	1.88	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
5.30	7.54450	30.16	0.00	5.90	1.87	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
5.20	7.54450	30.17	0.00	5.88	1.87	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
5.10	7.54450	30.17	0.00	5.87	1.87	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
5.00	7.54450	30.18	0.00	5.86	1.87	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
4.90	7.54450	30.18	0.00	5.85	1.86	0.00	1.15	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
4.80	7.54450	30.19	0.00	5.84	1.86	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
4.70	7.54450	30.19	0.00	5.82	1.86	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
4.60	7.54450	30.19	0.00	5.81	1.85	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
4.50	7.54450	30.20	0.00	5.80	1.85	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
4.40	7.54450	30.20	0.00	5.79	1.85	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
4.30	7.54450	30.21	0.00	5.78	1.84	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
4.20	7.54450	30.21	0.00	5.77	1.84	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
4.10	7.54450	30.22	0.00	5.76	1.84	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
4.00	7.54450	30.22	0.00	5.75	1.83	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
3.90	7.54450	30.23	0.00	5.74	1.83	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
3.80	7.54450	30.23	0.00	5.73	1.83	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
3.70	7.54450	30.23	0.00	5.72	1.82	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
3.60	7.54450	30.24	0.00	5.71	1.82	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
3.50	7.54450	30.24	0.00	5.69	1.82	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
3.40	7.54450	30.25	0.00	5.68	1.82	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
3.30	7.54450	30.25	0.00	5.67	1.81	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
3.20	7.54450	30.26	0.00	5.67	1.81	0.00	1.16	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
3.10	7.54450	30.26	0.00	5.66	1.81	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
3.00	7.54450	30.27	0.00	5.65	1.80	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
2.90	7.54450	30.27	0.00	5.64	1.80	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
2.80	7.54450	30.27	0.00	5.63	1.80	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.95
2.70	7.54450	30.28	0.00	5.62	1.80	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
2.60	7.54450	30.28	0.00	5.61	1.79	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
2.50	7.54450	30.29	0.00	5.60	1.79	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
2.40	7.54450	30.29	0.00	5.59	1.79	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
2.30	7.54450	30.30	0.00	5.58	1.79	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
2.20	7.54450	30.30	0.00	5.57	1.78	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
2.10	7.54450	30.31	0.00	5.56	1.78	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
2.00	7.54450	30.31	0.00	5.55	1.78	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
1.90	7.54450	30.31	0.00	5.55	1.77	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
1.80	7.54450	30.32	0.00	5.54	1.77	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
1.70	7.54450	30.32	0.00	5.53	1.77	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
1.60	7.54450	30.33	0.00	5.52	1.77	0.00	1.17	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
1.50	7.54450	30.33	0.00	5.51	1.76	0.00	1.18	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
1.40	7.54450	30.34	0.00	5.50	1.76	0.00	1.18	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
1.30	7.54450	30.34	0.00	5.50	1.76	0.00	1.18	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
1.20	7.54450	30.35	0.00	5.49	1.76	0.00	1.18	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
1.10	7.54450	30.35	0.00	5.48	1.75	0.00	1.18	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
1.00	7.54450	30.36	0.00	5.47	1.75	0.00	1.18	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
0.90	7.54450	30.36	0.00	5.46	1.75	0.00	1.18	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
0.80	7.54450	30.36	0.00	5.46	1.75	0.00	1.18	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
0.70	7.54450	30.37	0.00	5.45	1.74	0.00	1.18	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96

0.60	7.54450	30.37	0.00	5.44	1.74	0.00	1.18	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
0.50	7.54450	30.38	0.00	5.43	1.74	0.00	1.18	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
0.40	7.54450	30.38	0.00	5.43	1.74	0.00	1.18	0.06	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
0.30	7.56386	30.39	0.00	5.42	1.77	0.00	1.18	0.07	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
0.20	7.56386	30.39	0.00	5.41	1.76	0.00	1.18	0.07	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
0.10	7.56386	30.40	0.00	5.40	1.76	0.00	1.18	0.07	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96
0.00	7.56386	30.40	0.00	5.39	1.76	0.00	1.18	0.07	0.00	0.28	0.21	0.00	0.00	0.00	0.43	0.96

CONDENSED CAPSULE SUMMARY FOR Bayou Plaquemine

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3	CHLA	RATE	DECA	SETT DECA	SETT DECA	SOD
km	m≥/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L µg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m≤/d
HDWTR	0.77000	29.10	0.00	4.10	4.93	0.00	1.60	0.00	58.00					
11.80	0.77000	29.10	0.00	4.36	5.20	0.00	1.60	0.00	57.51	0.75	0.17	0.00	0.00	0.00	0.37	0.89
11.70	0.77000	29.10	0.00	4.60	5.47	0.00	1.60	0.00	57.03	0.75	0.17	0.00	0.00	0.00	0.37	0.89
11.60	0.77000	29.11	0.00	4.83	5.74	0.00	1.59	0.01	56.54	0.75	0.17	0.00	0.00	0.00	0.37	0.89
11.50	0.77000	29.11	0.00	5.05	6.01	0.00	1.59	0.01	56.05	0.75	0.17	0.00	0.00	0.00	0.38	0.89
11.40	0.77000	29.11	0.00	5.26	6.27	0.00	1.59	0.01	55.56	0.75	0.17	0.00	0.00	0.00	0.38	0.89
11.30	0.77000	29.11	0.00	5.45	6.53	0.00	1.59	0.01	55.08	0.75	0.17	0.00	0.00	0.00	0.39	0.89
11.20	0.77000	29.11	0.00	5.64	6.79	0.00	1.59	0.01	54.59	0.75	0.17	0.00	0.00	0.00	0.39	0.89
11.10	0.77000	29.11	0.00	5.81	7.05	0.00	1.58	0.01	54.10	0.75	0.17	0.00	0.00	0.00	0.39	0.89
11.00	0.77000	29.12	0.00	5.98	7.30	0.00	1.58	0.02	53.61	0.75	0.17	0.00	0.00	0.00	0.39	0.89
10.90	0.77000	29.12	0.00	6.13	7.56	0.00	1.58	0.02	53.13	0.75	0.17	0.00	0.00	0.00	0.40	0.89
10.80	0.77000	29.12	0.00	6.27	7.81	0.00	1.58	0.02	52.64	0.75	0.17	0.00	0.00	0.00	0.40	0.89
10.70	0.77000	29.12	0.00	6.41	8.06	0.00	1.58	0.02	52.15	0.75	0.17	0.00	0.00	0.00	0.40	0.89
10.60	0.77000	29.12	0.00	6.54	8.30	0.00	1.58	0.02	51.66	0.75	0.17	0.00	0.00	0.00	0.40	0.89
10.50	0.77000	29.12	0.00	6.66	8.55	0.00	1.57	0.02	51.18	0.75	0.17	0.00	0.00	0.00	0.40	0.89
10.40	0.77000	29.13	0.00	6.77	8.79	0.00	1.57	0.02	50.69	0.75	0.17	0.00	0.00	0.00	0.40	0.89
10.30	0.77000	29.13	0.00	6.87	9.03	0.00	1.57	0.03	50.20	0.75	0.17	0.00	0.00	0.00	0.40	0.89
10.20	0.77000	29.13	0.00	6.96	9.27	0.00	1.57	0.03	49.71	0.75	0.17	0.00	0.00	0.00	0.41	0.89
10.10	0.77000	29.13	0.00	7.05	9.51	0.00	1.57	0.03	49.23	0.75	0.17	0.00	0.00	0.00	0.41	0.89
10.00	0.77000	29.13	0.00	7.13	9.74	0.00	1.56	0.03	48.74	0.75	0.17	0.00	0.00	0.00	0.41	0.89
9.90	0.77000	29.13	0.00	7.20	9.98	0.00	1.56	0.03	48.25	0.75	0.17	0.00	0.00	0.00	0.41	0.89
9.80	0.77000	29.14	0.00	7.27	10.21	0.00	1.56	0.03	47.76	0.75	0.17	0.00	0.00	0.00	0.41	0.89
9.70	0.77000	29.14	0.00	7.33	10.44	0.00	1.56	0.03	47.28	0.75	0.17	0.00	0.00	0.00	0.41	0.89
9.60	0.77000	29.14	0.00	7.39	10.66	0.00	1.56	0.03	46.79	0.75	0.17	0.00	0.00	0.00	0.41	0.89
9.50	0.77000	29.14	0.00	7.44	10.89	0.00	1.56	0.04	46.30	0.75	0.17	0.00	0.00	0.00	0.41	0.89
9.40	0.77000	29.14	0.00	7.48	11.11	0.00	1.55	0.04	45.82	0.75	0.17	0.00	0.00	0.00	0.41	0.89
9.30	0.77000	29.14	0.00	7.52	11.33	0.00	1.55	0.04	45.33	0.75	0.17	0.00	0.00	0.00	0.41	0.89
9.20	0.77000	29.15	0.00	7.56	11.55	0.00	1.55	0.04	44.84	0.75	0.17	0.00	0.00	0.00	0.41	0.89
9.10	0.77000	29.15	0.00	7.59	11.77	0.00	1.55	0.04	44.35	0.75	0.17	0.00	0.00	0.00	0.41	0.89
9.00	0.77000	29.15	0.00	7.61	11.99	0.00	1.55	0.04	43.87	0.75	0.17	0.00	0.00	0.00	0.41	0.89
8.90	0.83572	29.15	0.00	7.40	13.59	0.00	1.55	0.35	43.38	0.75	0.17	0.00	0.00	0.00	0.41	0.89
8.80	0.83572	29.15	0.00	7.38	13.78	0.00	1.55	0.34	42.89	0.75	0.17	0.00	0.00	0.00	0.41	0.89
8.70	0.83572	29.15	0.00	7.37	13.96	0.00	1.54	0.34	42.40	0.75	0.17	0.00	0.00	0.00	0.41	0.89
8.60	0.83572	29.16	0.00	7.36	14.14	0.00	1.54	0.33	41.92	0.75	0.17	0.00	0.00	0.00	0.41	0.89
8.50	0.83572	29.16	0.00	7.34	14.33	0.00	1.54	0.33	41.43	0.75	0.17	0.00	0.00	0.00	0.41	0.89
8.40	0.83572	29.16	0.00	7.32	14.51	0.00	1.54	0.32	40.94	0.75	0.17	0.00	0.00	0.00	0.41	0.89
8.30	0.83572	29.16	0.00	7.30	14.68	0.00	1.54	0.32	40.45	0.75	0.17	0.00	0.00	0.00	0.41	0.89

8.20	0.83572	29.16	0.00	7.27	14.86	0.00	1.54	0.32	39.97	0.75	0.17	0.00	0.00	0.00	0.41	0.89
8.10	0.83572	29.16	0.00	7.25	15.04	0.00	1.53	0.31	39.48	0.75	0.17	0.00	0.00	0.00	0.41	0.89
8.00	0.83572	29.17	0.00	7.22	15.21	0.00	1.53	0.31	38.99	0.75	0.17	0.00	0.00	0.00	0.41	0.89
7.90	0.83572	29.17	0.00	7.19	15.38	0.00	1.53	0.30	38.50	0.75	0.17	0.00	0.00	0.00	0.41	0.89
7.80	0.83572	29.17	0.00	7.16	15.56	0.00	1.53	0.30	38.02	0.75	0.17	0.00	0.00	0.00	0.41	0.89
7.70	0.83572	29.17	0.00	7.13	15.73	0.00	1.53	0.30	37.53	0.75	0.17	0.00	0.00	0.00	0.41	0.89
7.60	0.83572	29.17	0.00	7.09	15.90	0.00	1.53	0.29	37.04	0.75	0.17	0.00	0.00	0.00	0.41	0.89
7.50	0.83572	29.17	0.00	7.06	16.06	0.00	1.52	0.29	36.55	0.75	0.17	0.00	0.00	0.00	0.41	0.89
7.40	0.83572	29.18	0.00	7.02	16.23	0.00	1.52	0.28	36.07	0.75	0.17	0.00	0.00	0.00	0.41	0.89
7.30	0.83572	29.18	0.00	6.99	16.40	0.00	1.52	0.28	35.58	0.75	0.17	0.00	0.00	0.00	0.41	0.89
7.20	0.83572	29.18	0.00	6.95	16.56	0.00	1.52	0.28	35.09	0.75	0.17	0.00	0.00	0.00	0.41	0.89
7.10	0.83572	29.18	0.00	6.91	16.72	0.00	1.52	0.27	34.61	0.75	0.17	0.00	0.00	0.00	0.41	0.89
7.00	0.83572	29.18	0.00	6.86	16.88	0.00	1.52	0.27	34.12	0.75	0.17	0.00	0.00	0.00	0.41	0.89
6.90	0.83572	29.18	0.00	6.82	17.04	0.00	1.51	0.27	33.63	0.75	0.17	0.00	0.00	0.00	0.41	0.89
6.80	0.83572	29.19	0.00	6.78	17.20	0.00	1.51	0.26	33.14	0.75	0.17	0.00	0.00	0.00	0.41	0.89
6.70	0.83572	29.19	0.00	6.73	17.36	0.00	1.51	0.26	32.66	0.75	0.17	0.00	0.00	0.00	0.41	0.89
6.60	0.83572	29.19	0.00	6.69	17.52	0.00	1.51	0.26	32.17	0.75	0.17	0.00	0.00	0.00	0.40	0.89
6.50	0.83572	29.19	0.00	6.64	17.67	0.00	1.51	0.25	31.68	0.75	0.17	0.00	0.00	0.00	0.40	0.89
6.40	0.83572	29.19	0.00	6.59	17.83	0.00	1.51	0.25	31.19	0.75	0.17	0.00	0.00	0.00	0.40	0.89
6.30	0.83572	29.19	0.00	6.54	17.98	0.00	1.50	0.25	30.71	0.75	0.17	0.00	0.00	0.00	0.40	0.89
6.20	0.83572	29.20	0.00	6.49	18.13	0.00	1.50	0.25	30.22	0.75	0.17	0.00	0.00	0.00	0.40	0.89
6.10	0.83572	29.20	0.00	6.44	18.28	0.00	1.50	0.24	29.73	0.75	0.17	0.00	0.00	0.00	0.40	0.89
6.00	0.83572	29.20	0.00	6.39	18.43	0.00	1.50	0.24	29.24	0.75	0.17	0.00	0.00	0.00	0.40	0.89
5.90	0.83572	29.20	0.00	6.34	18.58	0.00	1.50	0.24	28.76	0.75	0.17	0.00	0.00	0.00	0.40	0.89
5.80	0.83572	29.20	0.00	6.28	18.73	0.00	1.50	0.24	28.27	0.75	0.17	0.00	0.00	0.00	0.40	0.89
5.70	0.83572	29.20	0.00	6.23	18.87	0.00	1.50	0.23	27.78	0.75	0.17	0.00	0.00	0.00	0.40	0.89
5.60	0.83572	29.21	0.00	6.18	19.02	0.00	1.49	0.23	27.29	0.75	0.17	0.00	0.00	0.00	0.40	0.89
5.50	0.83572	29.21	0.00	6.12	19.16	0.00	1.49	0.23	26.81	0.76	0.17	0.00	0.00	0.00	0.40	0.89
5.40	0.83572	29.21	0.00	6.06	19.31	0.00	1.49	0.22	26.32	0.76	0.17	0.00	0.00	0.00	0.40	0.89
5.30	0.83572	29.21	0.00	6.01	19.45	0.00	1.49	0.22	25.83	0.76	0.17	0.00	0.00	0.00	0.40	0.89
5.20	0.83572	29.21	0.00	5.95	19.59	0.00	1.49	0.22	25.34	0.76	0.17	0.00	0.00	0.00	0.40	0.89
5.10	0.83572	29.21	0.00	5.89	19.73	0.00	1.49	0.22	24.86	0.76	0.17	0.00	0.00	0.00	0.40	0.89
5.00	0.83572	29.22	0.00	5.83	19.87	0.00	1.48	0.22	24.37	0.76	0.17	0.00	0.00	0.00	0.39	0.89
4.90	0.83857	29.22	0.00	5.77	19.97	0.00	1.48	0.22	23.88	0.76	0.17	0.00	0.00	0.00	0.39	0.89
4.80	0.83857	29.22	0.00	5.71	20.11	0.00	1.48	0.22	23.39	0.76	0.17	0.00	0.00	0.00	0.39	0.89
4.70	0.83857	29.22	0.00	5.65	20.24	0.00	1.48	0.21	22.91	0.76	0.17	0.00	0.00	0.00	0.39	0.89
4.60	0.83962	29.22	0.00	5.59	20.39	0.00	1.48	0.21	22.42	0.76	0.17	0.00	0.00	0.00	0.39	0.89
4.50	0.83962	29.22	0.00	5.53	20.52	0.00	1.48	0.21	21.93	0.76	0.17	0.00	0.00	0.00	0.39	0.89
4.40	0.83962	29.23	0.00	5.47	20.65	0.00	1.47	0.21	21.45	0.76	0.17	0.00	0.00	0.00	0.39	0.89
4.30	0.83984	29.23	0.00	5.41	20.79	0.00	1.47	0.21	20.96	0.76	0.17	0.00	0.00	0.00	0.39	0.89
4.20	0.83984	29.23	0.00	5.35	20.92	0.00	1.47	0.20	20.47	0.76	0.17	0.00	0.00	0.00	0.39	0.89
4.10	0.83984	29.23	0.00	5.28	21.05	0.00	1.47	0.20	19.98	0.76	0.17	0.00	0.00	0.00	0.39	0.89
4.00	0.83984	29.23	0.00	5.22	21.17	0.00	1.47	0.20	19.50	0.76	0.17	0.00	0.00	0.00	0.39	0.89
3.90	0.83984	29.23	0.00	5.16	21.30	0.00	1.47	0.20	19.01	0.76	0.17	0.00	0.00	0.00	0.38	0.89
3.80	0.83984	29.24	0.00	5.10	21.43	0.00	1.46	0.20	18.52	0.76	0.17	0.00	0.00	0.00	0.38	0.89
3.70	0.83984	29.24	0.00	5.03	21.55	0.00	1.46	0.20	18.03	0.76	0.17	0.00	0.00	0.00	0.38	0.89
3.60	0.83984	29.24	0.00	4.97	21.68	0.00	1.46	0.19	17.55	0.76	0.17	0.00	0.00	0.00	0.38	0.89
3.50	0.83984	29.24	0.00	4.90	21.80	0.00	1.46	0.19	17.06	0.76	0.17	0.00	0.00	0.00	0.38	0.89
3.40	0.83984	29.24	0.00	4.84	21.92	0.00	1.46	0.19	16.57	0.76	0.17	0.00	0.00	0.00	0.38	0.89
3.30	0.83984	29.24	0.00	4.78	22.04	0.00	1.46	0.19	16.08	0.76	0.17	0.00	0.00	0.00	0.38	0.89

3.20	0.83995	29.25	0.00	4.71	22.16	0.00	1.46	0.19	15.60	0.76	0.17	0.00	0.00	0.00	0.38	0.90
3.10	0.83995	29.25	0.00	4.65	22.28	0.00	1.45	0.19	15.11	0.76	0.17	0.00	0.00	0.00	0.38	0.90
3.00	0.83995	29.25	0.00	4.58	22.40	0.00	1.45	0.18	14.62	0.76	0.17	0.00	0.00	0.00	0.37	0.90
2.90	0.83995	29.25	0.00	4.51	22.52	0.00	1.45	0.18	14.13	0.76	0.17	0.00	0.00	0.00	0.37	0.90
2.80	0.83995	29.25	0.00	4.45	22.63	0.00	1.45	0.18	13.65	0.76	0.17	0.00	0.00	0.00	0.37	0.90
2.70	0.83995	29.25	0.00	4.38	22.75	0.00	1.45	0.18	13.16	0.76	0.17	0.00	0.00	0.00	0.37	0.90
2.60	0.83995	29.26	0.00	4.32	22.86	0.00	1.45	0.18	12.67	0.76	0.17	0.00	0.00	0.00	0.37	0.90
2.50	0.83995	29.26	0.00	4.25	22.98	0.00	1.44	0.18	12.18	0.76	0.17	0.00	0.00	0.00	0.37	0.90
2.40	0.83995	29.26	0.00	4.18	23.09	0.00	1.44	0.18	11.70	0.76	0.17	0.00	0.00	0.00	0.37	0.90
2.30	0.83995	29.26	0.00	4.12	23.20	0.00	1.44	0.17	11.21	0.76	0.17	0.00	0.00	0.00	0.36	0.90
2.20	0.83995	29.26	0.00	4.05	23.31	0.00	1.44	0.17	10.72	0.76	0.17	0.00	0.00	0.00	0.36	0.90
2.10	0.83995	29.26	0.00	3.98	23.42	0.00	1.44	0.17	10.24	0.76	0.17	0.00	0.00	0.00	0.36	0.90
2.00	0.83995	29.27	0.00	3.92	23.53	0.00	1.44	0.17	9.75	0.76	0.17	0.00	0.00	0.00	0.36	0.90
1.90	0.83995	29.27	0.00	3.85	23.64	0.00	1.43	0.17	9.26	0.76	0.17	0.00	0.00	0.00	0.36	0.90
1.80	0.83995	29.27	0.00	3.78	23.75	0.00	1.43	0.17	8.77	0.76	0.17	0.00	0.00	0.00	0.36	0.90
1.70	0.83995	29.27	0.00	3.72	23.85	0.00	1.43	0.17	8.29	0.76	0.17	0.00	0.00	0.00	0.35	0.90
1.60	0.83995	29.27	0.00	3.65	23.96	0.00	1.43	0.17	7.80	0.76	0.17	0.00	0.00	0.00	0.35	0.90
1.50	0.83995	29.27	0.00	3.58	24.07	0.00	1.43	0.16	7.31	0.76	0.17	0.00	0.00	0.00	0.35	0.90
1.40	0.83995	29.28	0.00	3.51	24.17	0.00	1.43	0.16	6.82	0.76	0.17	0.00	0.00	0.00	0.35	0.90
1.30	0.83995	29.28	0.00	3.45	24.27	0.00	1.43	0.16	6.34	0.76	0.17	0.00	0.00	0.00	0.35	0.90
1.20	0.83995	29.28	0.00	3.38	24.38	0.00	1.42	0.16	5.85	0.76	0.17	0.00	0.00	0.00	0.34	0.90
1.10	0.83995	29.28	0.00	3.31	24.48	0.00	1.42	0.16	5.36	0.76	0.17	0.00	0.00	0.00	0.34	0.90
1.00	0.83995	29.28	0.00	3.24	24.58	0.00	1.42	0.16	4.87	0.76	0.17	0.00	0.00	0.00	0.34	0.90
0.90	0.83995	29.28	0.00	3.18	24.68	0.00	1.42	0.16	4.39	0.76	0.17	0.00	0.00	0.00	0.34	0.90
0.80	0.83995	29.29	0.00	3.11	24.78	0.00	1.42	0.16	3.90	0.76	0.17	0.00	0.00	0.00	0.34	0.90
0.70	0.83995	29.29	0.00	3.04	24.88	0.00	1.42	0.16	3.41	0.76	0.17	0.00	0.00	0.00	0.33	0.90
0.60	0.83995	29.29	0.00	2.97	24.98	0.00	1.41	0.16	2.92	0.76	0.17	0.00	0.00	0.00	0.33	0.90
0.50	0.83995	29.29	0.00	2.91	25.07	0.00	1.41	0.16	2.44	0.76	0.17	0.00	0.00	0.00	0.33	0.90
0.40	0.83995	29.29	0.00	2.84	25.17	0.00	1.41	0.15	1.95	0.76	0.17	0.00	0.00	0.00	0.32	0.90
0.30	0.83995	29.29	0.00	2.77	25.27	0.00	1.41	0.15	1.46	0.76	0.17	0.00	0.00	0.00	0.32	0.90
0.20	0.83995	29.30	0.00	2.70	25.36	0.00	1.41	0.15	0.97	0.76	0.17	0.00	0.00	0.00	0.32	0.90
0.10	0.83995	29.30	0.00	2.64	25.46	0.00	1.41	0.15	0.49	0.76	0.17	0.00	0.00	0.00	0.32	0.90
0.00	0.83995	29.30	0.00	2.57	25.55	0.00	1.41	0.15	0.00	0.76	0.17	0.00	0.00	0.00	0.31	0.90

CONDENSED CAPSULE SUMMARY FOR Upper Grand River #1

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3 NH3	CHLA	RATE	DECA	SETT DECA	SETT DECA	SOD
km	m≥/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	g/m≤/d
HDWTR	3.94000	30.50	0.00	3.30	16.00	0.00	1.40	0.03	32.00					
12.30	3.94000	31.49	0.00	3.16	15.77	0.00	1.40	0.03	32.07	0.85	0.51	0.00	0.00	0.00	0.40	3.30
12.20	3.94000	31.48	0.00	3.03	15.55	0.00	1.40	0.03	32.14	0.85	0.51	0.00	0.00	0.00	0.40	3.30
12.10	3.94000	31.48	0.00	2.91	15.33	0.00	1.40	0.03	32.21	0.85	0.51	0.00	0.00	0.00	0.39	3.30
12.00	3.94000	31.47	0.00	2.79	15.11	0.00	1.40	0.03	32.29	0.85	0.51	0.00	0.00	0.00	0.38	3.29
11.90	3.94000	31.46	0.00	2.68	14.89	0.00	1.40	0.03	32.36	0.85	0.51	0.00	0.00	0.00	0.38	3.29
11.80	3.94000	31.45	0.00	2.58	14.68	0.00	1.39	0.03	32.43	0.85	0.51	0.00	0.00	0.00	0.37	3.29
11.70	3.94000	31.44	0.00	2.48	14.47	0.00	1.39	0.03	32.50	0.85	0.51	0.00	0.00	0.00	0.37	3.29
11.60	3.94000	31.43	0.00	2.39	14.27	0.00	1.39	0.04	32.57	0.85	0.51	0.00	0.00	0.00	0.36	3.29
11.50	3.94000	31.42	0.00	2.30	14.06	0.00	1.39	0.04	32.64	0.85	0.51	0.00	0.00	0.00	0.36	3.29
11.40	3.94000	31.42	0.00	2.21	13.86	0.00	1.39	0.04	32.71	0.85	0.51	0.00	0.00	0.00	0.35	3.28

11.30	3.94000	31.41	0.00	2.14	13.67	0.00	1.39	0.04	32.79	0.85	0.51	0.00	0.00	0.00	0.34	3.28
11.20	3.94000	31.40	0.00	2.06	13.47	0.00	1.39	0.04	32.86	0.85	0.51	0.00	0.00	0.00	0.34	3.28
11.10	3.94000	31.39	0.00	1.99	13.28	0.00	1.39	0.04	32.93	0.85	0.50	0.00	0.00	0.00	0.33	3.27
11.00	3.94000	31.38	0.00	1.94	13.10	0.00	1.39	0.04	33.00	0.85	0.49	0.00	0.00	0.00	0.31	3.18
10.90	3.94000	31.38	0.00	1.89	12.92	0.00	1.39	0.04	33.07	0.85	0.48	0.00	0.00	0.00	0.28	3.10
10.80	3.94000	31.37	0.00	1.86	12.75	0.00	1.38	0.04	33.14	0.85	0.47	0.00	0.00	0.00	0.26	3.04
10.70	3.94000	31.36	0.00	1.83	12.59	0.00	1.38	0.04	33.21	0.85	0.46	0.00	0.00	0.00	0.24	2.99
10.60	3.94000	31.35	0.00	1.80	12.43	0.00	1.38	0.04	33.29	0.85	0.45	0.00	0.00	0.00	0.23	2.94
10.50	3.94000	31.34	0.00	1.78	12.27	0.00	1.38	0.04	33.36	0.85	0.45	0.00	0.00	0.00	0.22	2.91
10.40	3.94000	31.33	0.00	1.77	12.12	0.00	1.38	0.04	33.43	0.85	0.45	0.00	0.00	0.00	0.22	2.89
10.30	3.94000	31.33	0.00	1.76	11.97	0.00	1.38	0.04	33.50	0.85	0.44	0.00	0.00	0.00	0.21	2.87
10.20	3.94000	31.32	0.00	1.75	11.82	0.00	1.38	0.04	33.57	0.85	0.44	0.00	0.00	0.00	0.21	2.86
10.10	3.94000	31.31	0.00	1.75	11.67	0.00	1.38	0.05	33.64	0.85	0.44	0.00	0.00	0.00	0.21	2.85
10.00	3.94000	31.30	0.00	1.74	11.53	0.00	1.38	0.05	33.71	0.85	0.44	0.00	0.00	0.00	0.20	2.84
9.90	3.94000	31.29	0.00	1.74	11.39	0.00	1.38	0.05	33.79	0.85	0.44	0.00	0.00	0.00	0.20	2.84
9.80	3.94000	31.28	0.00	1.74	11.24	0.00	1.37	0.05	33.86	0.85	0.44	0.00	0.00	0.00	0.20	2.84
9.70	3.94000	31.27	0.00	1.75	11.11	0.00	1.37	0.05	33.93	0.85	0.44	0.00	0.00	0.00	0.21	2.84
9.60	3.94000	31.27	0.00	1.75	10.97	0.00	1.37	0.05	34.00	0.85	0.44	0.00	0.00	0.00	0.21	2.85
9.50	4.90829	31.26	0.00	2.47	10.65	0.00	1.38	0.06	34.07	0.94	0.50	0.00	0.00	0.00	0.36	3.25
9.40	4.90829	31.25	0.00	2.45	10.53	0.00	1.38	0.06	34.14	0.94	0.50	0.00	0.00	0.00	0.36	3.25
9.30	4.90829	31.24	0.00	2.44	10.41	0.00	1.38	0.06	34.21	0.94	0.50	0.00	0.00	0.00	0.36	3.25
9.20	4.90829	31.23	0.00	2.42	10.30	0.00	1.37	0.06	34.29	0.94	0.50	0.00	0.00	0.00	0.36	3.25
9.10	4.90829	31.23	0.00	2.41	10.18	0.00	1.37	0.06	34.36	0.94	0.50	0.00	0.00	0.00	0.36	3.24
9.00	4.90829	31.22	0.00	2.40	10.06	0.00	1.37	0.06	34.43	0.94	0.50	0.00	0.00	0.00	0.36	3.24
8.90	4.90829	31.21	0.00	2.39	9.95	0.00	1.37	0.06	34.50	0.94	0.50	0.00	0.00	0.00	0.35	3.24
8.80	4.90829	31.20	0.00	2.38	9.84	0.00	1.37	0.06	34.57	0.94	0.50	0.00	0.00	0.00	0.35	3.24
8.70	4.90829	31.19	0.00	2.37	9.73	0.00	1.37	0.06	34.64	0.94	0.50	0.00	0.00	0.00	0.35	3.24
8.60	4.90829	31.18	0.00	2.37	9.62	0.00	1.37	0.06	34.71	0.94	0.50	0.00	0.00	0.00	0.35	3.24
8.50	4.90829	31.17	0.00	2.36	9.51	0.00	1.37	0.06	34.79	0.94	0.50	0.00	0.00	0.00	0.35	3.23
8.40	4.90829	31.17	0.00	2.36	9.40	0.00	1.37	0.06	34.86	0.94	0.50	0.00	0.00	0.00	0.35	3.23
8.30	4.90829	31.16	0.00	2.36	9.29	0.00	1.37	0.06	34.93	0.94	0.50	0.00	0.00	0.00	0.35	3.23
8.20	4.90829	31.15	0.00	2.36	9.19	0.00	1.37	0.06	35.00	0.94	0.50	0.00	0.00	0.00	0.35	3.23
8.10	4.90829	31.14	0.00	2.37	9.08	0.00	1.37	0.06	35.07	0.94	0.50	0.00	0.00	0.00	0.35	3.23
8.00	4.90829	31.13	0.00	2.37	8.98	0.00	1.37	0.06	35.14	0.94	0.50	0.00	0.00	0.00	0.35	3.23
7.90	4.90829	31.12	0.00	2.37	8.88	0.00	1.36	0.06	35.21	0.94	0.50	0.00	0.00	0.00	0.35	3.22
7.80	4.90829	31.12	0.00	2.38	8.78	0.00	1.36	0.06	35.29	0.94	0.50	0.00	0.00	0.00	0.35	3.22
7.70	4.90829	31.11	0.00	2.39	8.68	0.00	1.36	0.06	35.36	0.94	0.50	0.00	0.00	0.00	0.35	3.22
7.60	4.90829	31.10	0.00	2.39	8.58	0.00	1.36	0.06	35.43	0.94	0.50	0.00	0.00	0.00	0.35	3.22
7.50	4.90829	31.09	0.00	2.40	8.49	0.00	1.36	0.06	35.50	0.94	0.50	0.00	0.00	0.00	0.35	3.22
7.40	4.90829	31.08	0.00	2.41	8.39	0.00	1.36	0.06	35.57	0.94	0.50	0.00	0.00	0.00	0.35	3.22
7.30	4.90829	31.07	0.00	2.43	8.30	0.00	1.36	0.07	35.64	0.94	0.50	0.00	0.00	0.00	0.35	3.21
7.20	4.90829	31.07	0.00	2.44	8.20	0.00	1.36	0.07	35.71	0.94	0.50	0.00	0.00	0.00	0.35	3.21
7.10	4.90829	31.06	0.00	2.45	8.11	0.00	1.36	0.07	35.79	0.94	0.50	0.00	0.00	0.00	0.35	3.21
7.00	4.90829	31.05	0.00	2.47	8.02	0.00	1.36	0.07	35.86	0.94	0.50	0.00	0.00	0.00	0.35	3.21
6.90	4.90829	31.04	0.00	2.48	7.93	0.00	1.36	0.07	35.93	0.94	0.50	0.00	0.00	0.00	0.36	3.21
6.80	4.90829	31.03	0.00	2.50	7.84	0.00	1.36	0.07	36.00	0.94	0.50	0.00	0.00	0.00	0.36	3.21
6.70	4.90829	31.02	0.00	2.51	7.75	0.00	1.36	0.07	36.07	0.94	0.50	0.00	0.00	0.00	0.36	3.20
6.60	4.90829	31.02	0.00	2.53	7.67	0.00	1.35	0.07	36.14	0.94	0.50	0.00	0.00	0.00	0.36	3.20
6.50	4.90829	31.01	0.00	2.55	7.58	0.00	1.35	0.07	36.21	0.94	0.50	0.00	0.00	0.00	0.36	3.20
6.40	4.90829	31.00	0.00	2.57	7.49	0.00	1.35	0.07	36.29	0.94	0.50	0.00	0.00	0.00	0.36	3.20

6.30	4.90829	30.99	0.00	2.59	7.41	0.00	1.35	0.07	36.36	0.94	0.50	0.00	0.00	0.00	0.36	3.20
6.20	4.90829	30.98	0.00	2.61	7.33	0.00	1.35	0.07	36.43	0.94	0.50	0.00	0.00	0.00	0.36	3.20
6.10	4.90829	30.98	0.00	2.63	7.25	0.00	1.35	0.07	36.50	0.94	0.50	0.00	0.00	0.00	0.36	3.19
6.00	4.90829	30.97	0.00	2.65	7.16	0.00	1.35	0.07	36.57	0.94	0.50	0.00	0.00	0.00	0.36	3.19
5.90	4.90829	30.96	0.00	2.67	7.08	0.00	1.35	0.07	36.64	0.94	0.50	0.00	0.00	0.00	0.36	3.19
5.80	4.90829	30.95	0.00	2.70	7.00	0.00	1.35	0.07	36.71	0.94	0.50	0.00	0.00	0.00	0.36	3.19
5.70	4.90829	30.94	0.00	2.72	6.93	0.00	1.35	0.07	36.79	0.94	0.50	0.00	0.00	0.00	0.36	3.19
5.60	4.90829	30.93	0.00	2.74	6.85	0.00	1.35	0.07	36.86	0.94	0.50	0.00	0.00	0.00	0.37	3.19
5.50	4.90829	30.92	0.00	2.77	6.77	0.00	1.35	0.07	36.93	0.94	0.50	0.00	0.00	0.00	0.37	3.18
5.40	4.90829	30.92	0.00	2.79	6.70	0.00	1.35	0.07	37.00	0.94	0.50	0.00	0.00	0.00	0.37	3.18
5.30	4.90829	30.91	0.00	2.82	6.62	0.00	1.34	0.07	37.07	0.94	0.50	0.00	0.00	0.00	0.37	3.18
5.20	4.90829	30.90	0.00	2.84	6.55	0.00	1.34	0.07	37.14	0.94	0.49	0.00	0.00	0.00	0.37	3.18
5.10	4.90829	30.89	0.00	2.87	6.47	0.00	1.34	0.07	37.21	0.94	0.49	0.00	0.00	0.00	0.37	3.18
5.00	4.90829	30.88	0.00	2.90	6.40	0.00	1.34	0.07	37.29	0.94	0.49	0.00	0.00	0.00	0.37	3.18
4.90	4.90829	30.88	0.00	2.92	6.33	0.00	1.34	0.07	37.36	0.94	0.49	0.00	0.00	0.00	0.37	3.17
4.80	4.90829	30.87	0.00	2.95	6.26	0.00	1.34	0.07	37.43	0.94	0.49	0.00	0.00	0.00	0.37	3.17
4.70	4.90829	30.86	0.00	2.98	6.19	0.00	1.34	0.07	37.50	0.94	0.49	0.00	0.00	0.00	0.37	3.17
4.60	4.90829	30.85	0.00	3.01	6.12	0.00	1.34	0.07	37.57	0.94	0.49	0.00	0.00	0.00	0.38	3.17
4.50	4.90829	30.84	0.00	3.04	6.05	0.00	1.34	0.07	37.64	0.94	0.49	0.00	0.00	0.00	0.38	3.17
4.40	4.90829	30.83	0.00	3.07	5.99	0.00	1.34	0.07	37.71	0.94	0.49	0.00	0.00	0.00	0.38	3.17
4.30	4.90829	30.82	0.00	3.09	5.92	0.00	1.34	0.07	37.79	0.94	0.49	0.00	0.00	0.00	0.38	3.16
4.20	4.90829	30.82	0.00	3.12	5.85	0.00	1.34	0.07	37.86	0.94	0.49	0.00	0.00	0.00	0.38	3.16
4.10	4.90829	30.81	0.00	3.15	5.79	0.00	1.34	0.07	37.93	0.94	0.49	0.00	0.00	0.00	0.38	3.16
4.00	4.90829	30.80	0.00	3.18	5.72	0.00	1.33	0.07	38.00	0.94	0.49	0.00	0.00	0.00	0.38	3.16
3.90	6.87829	30.78	0.00	3.40	5.85	0.00	1.36	0.07	37.05	0.94	0.49	0.00	0.00	0.00	0.39	3.16
3.80	6.87829	30.76	0.00	3.42	5.81	0.00	1.36	0.07	36.10	0.94	0.49	0.00	0.00	0.00	0.39	3.15
3.70	6.87829	30.75	0.00	3.44	5.77	0.00	1.36	0.07	35.15	0.94	0.49	0.00	0.00	0.00	0.39	3.15
3.60	6.87829	30.73	0.00	3.45	5.74	0.00	1.36	0.07	34.20	0.94	0.49	0.00	0.00	0.00	0.39	3.14
3.50	6.87829	30.71	0.00	3.47	5.70	0.00	1.35	0.07	33.25	0.94	0.49	0.00	0.00	0.00	0.39	3.14
3.40	6.87829	30.69	0.00	3.48	5.66	0.00	1.35	0.07	32.30	0.94	0.49	0.00	0.00	0.00	0.39	3.14
3.30	6.87829	30.68	0.00	3.50	5.62	0.00	1.35	0.07	31.35	0.94	0.49	0.00	0.00	0.00	0.39	3.13
3.20	6.87829	30.66	0.00	3.51	5.59	0.00	1.35	0.07	30.40	0.94	0.49	0.00	0.00	0.00	0.39	3.13
3.10	6.87829	30.64	0.00	3.52	5.55	0.00	1.35	0.07	29.45	0.94	0.49	0.00	0.00	0.00	0.39	3.13
3.00	6.87829	30.62	0.00	3.53	5.51	0.00	1.35	0.07	28.50	0.94	0.49	0.00	0.00	0.00	0.39	3.12
2.90	6.87829	30.61	0.00	3.54	5.48	0.00	1.35	0.07	27.55	0.94	0.49	0.00	0.00	0.00	0.39	3.12
2.80	6.87829	30.59	0.00	3.55	5.44	0.00	1.35	0.07	26.60	0.94	0.49	0.00	0.00	0.00	0.39	3.12
2.70	6.87829	30.57	0.00	3.56	5.41	0.00	1.35	0.07	25.65	0.94	0.49	0.00	0.00	0.00	0.39	3.11
2.60	6.87829	30.56	0.00	3.57	5.37	0.00	1.35	0.07	24.70	0.94	0.49	0.00	0.00	0.00	0.39	3.11
2.50	6.87829	30.54	0.00	3.58	5.33	0.00	1.35	0.07	23.75	0.94	0.49	0.00	0.00	0.00	0.39	3.11
2.40	6.87829	30.52	0.00	3.58	5.30	0.00	1.35	0.07	22.80	0.94	0.49	0.00	0.00	0.00	0.39	3.10
2.30	6.87829	30.50	0.00	3.59	5.26	0.00	1.35	0.07	21.85	0.94	0.49	0.00	0.00	0.00	0.39	3.10
2.20	6.87829	30.49	0.00	3.59	5.23	0.00	1.35	0.07	20.90	0.94	0.49	0.00	0.00	0.00	0.39	3.10
2.10	6.87829	30.47	0.00	3.60	5.20	0.00	1.35	0.07	19.95	0.94	0.49	0.00	0.00	0.00	0.39	3.09
2.00	6.87829	30.45	0.00	3.60	5.16	0.00	1.35	0.07	19.00	0.94	0.48	0.00	0.00	0.00	0.39	3.09
1.90	6.87829	30.43	0.00	3.60	5.13	0.00	1.35	0.07	18.05	0.94	0.48	0.00	0.00	0.00	0.38	3.09
1.80	6.87829	30.41	0.00	3.60	5.10	0.00	1.35	0.07	17.10	0.94	0.48	0.00	0.00	0.00	0.38	3.08
1.70	6.87829	30.40	0.00	3.60	5.06	0.00	1.35	0.07	16.15	0.94	0.48	0.00	0.00	0.00	0.38	3.08
1.60	6.87829	30.38	0.00	3.60	5.03	0.00	1.35	0.07	15.20	0.94	0.48	0.00	0.00	0.00	0.38	3.08
1.50	6.87829	30.36	0.00	3.60	5.00	0.00	1.35	0.07	14.25	0.94	0.48	0.00	0.00	0.00	0.38	3.07
1.40	6.87829	30.34	0.00	3.60	4.96	0.00	1.35	0.07	13.30	0.94	0.48	0.00	0.00	0.00	0.38	3.07

1.30	6.87829	30.33	0.00	3.60	4.93	0.00	1.34	0.07	12.35	0.94	0.48	0.00	0.00	0.00	0.38	3.07
1.20	6.87829	30.31	0.00	3.59	4.90	0.00	1.34	0.07	11.40	0.94	0.48	0.00	0.00	0.00	0.38	3.06
1.10	6.87829	30.29	0.00	3.59	4.87	0.00	1.34	0.07	10.45	0.94	0.48	0.00	0.00	0.00	0.38	3.06
1.00	6.87829	30.27	0.00	3.59	4.84	0.00	1.34	0.07	9.50	0.94	0.48	0.00	0.00	0.00	0.38	3.06
0.90	6.87829	30.26	0.00	3.58	4.80	0.00	1.34	0.07	8.55	0.94	0.48	0.00	0.00	0.00	0.38	3.05
0.80	6.87829	30.24	0.00	3.57	4.77	0.00	1.34	0.07	7.60	0.94	0.48	0.00	0.00	0.00	0.38	3.05
0.70	6.87829	30.22	0.00	3.57	4.74	0.00	1.34	0.07	6.65	0.94	0.48	0.00	0.00	0.00	0.38	3.05
0.60	6.87829	30.20	0.00	3.56	4.71	0.00	1.34	0.07	5.70	0.94	0.48	0.00	0.00	0.00	0.38	3.04
0.50	6.87829	30.19	0.00	3.55	4.68	0.00	1.34	0.07	4.75	0.94	0.48	0.00	0.00	0.00	0.38	3.04
0.40	6.87829	30.17	0.00	3.54	4.65	0.00	1.34	0.07	3.80	0.93	0.48	0.00	0.00	0.00	0.37	3.04
0.30	6.87829	30.15	0.00	3.53	4.62	0.00	1.34	0.07	2.85	0.93	0.48	0.00	0.00	0.00	0.37	3.03
0.20	6.87829	30.14	0.00	3.52	4.59	0.00	1.34	0.07	1.90	0.93	0.48	0.00	0.00	0.00	0.37	3.03
0.10	6.87829	30.12	0.00	3.51	4.56	0.00	1.34	0.07	0.95	0.93	0.48	0.00	0.00	0.00	0.37	3.03
0.00	6.87829	30.10	0.00	3.50	4.53	0.00	1.34	0.07	0.00	0.93	0.48	0.00	0.00	0.00	0.37	3.02

CONDENSED CAPSULE SUMMARY FOR Lower Flat River

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3	CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m≥/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m≤/d
HDWTR	1.97000	31.50	0.00	5.50	12.00	0.00	1.40	0.03	0.00							
4.30	1.97000	30.51	0.00	5.32	11.83	0.00	1.40	0.03	0.86	1.31	0.49	0.00	0.00	0.00	0.43	2.52
4.20	1.97000	30.51	0.00	5.15	11.66	0.00	1.40	0.03	1.73	1.31	0.49	0.00	0.00	0.00	0.43	2.52
4.10	1.97000	30.52	0.00	4.99	11.49	0.00	1.40	0.03	2.59	1.31	0.49	0.00	0.00	0.00	0.42	2.52
4.00	1.97000	30.53	0.00	4.84	11.32	0.00	1.40	0.03	3.45	1.31	0.49	0.00	0.00	0.00	0.42	2.52
3.90	1.97000	30.53	0.00	4.70	11.16	0.00	1.40	0.03	4.32	1.31	0.49	0.00	0.00	0.00	0.42	2.52
3.80	1.97000	30.54	0.00	4.57	11.00	0.00	1.40	0.03	5.18	1.31	0.49	0.00	0.00	0.00	0.41	2.52
3.70	1.97000	30.55	0.00	4.45	10.84	0.00	1.40	0.03	6.05	1.31	0.49	0.00	0.00	0.00	0.41	2.53
3.60	1.97000	30.55	0.00	4.33	10.68	0.00	1.40	0.04	6.91	1.31	0.49	0.00	0.00	0.00	0.41	2.53
3.50	1.97000	30.56	0.00	4.23	10.53	0.00	1.40	0.04	7.77	1.31	0.49	0.00	0.00	0.00	0.41	2.53
3.40	1.97000	30.57	0.00	4.13	10.38	0.00	1.40	0.04	8.64	1.31	0.49	0.00	0.00	0.00	0.40	2.53
3.30	1.97000	30.58	0.00	4.05	10.23	0.00	1.40	0.04	9.50	1.31	0.49	0.00	0.00	0.00	0.40	2.53
3.20	1.97000	30.58	0.00	3.97	10.08	0.00	1.40	0.04	10.36	1.31	0.49	0.00	0.00	0.00	0.40	2.53
3.10	1.97000	30.59	0.00	3.89	9.93	0.00	1.40	0.04	11.23	1.31	0.49	0.00	0.00	0.00	0.40	2.53
3.00	1.97000	30.60	0.00	3.82	9.79	0.00	1.40	0.04	12.09	1.31	0.49	0.00	0.00	0.00	0.40	2.53
2.90	1.97000	30.60	0.00	3.76	9.65	0.00	1.40	0.04	12.95	1.31	0.49	0.00	0.00	0.00	0.40	2.53
2.80	1.97000	30.61	0.00	3.71	9.51	0.00	1.40	0.04	13.82	1.31	0.49	0.00	0.00	0.00	0.39	2.54
2.70	1.97000	30.62	0.00	3.66	9.37	0.00	1.41	0.04	14.68	1.31	0.49	0.00	0.00	0.00	0.39	2.54
2.60	1.97000	30.62	0.00	3.62	9.23	0.00	1.41	0.04	15.55	1.31	0.49	0.00	0.00	0.00	0.39	2.54
2.50	1.97000	30.63	0.00	3.58	9.10	0.00	1.41	0.04	16.41	1.31	0.49	0.00	0.00	0.00	0.39	2.54
2.40	1.97000	30.64	0.00	3.55	8.97	0.00	1.41	0.04	17.27	1.31	0.49	0.00	0.00	0.00	0.39	2.54
2.30	1.97000	30.64	0.00	3.52	8.84	0.00	1.41	0.04	18.14	1.31	0.49	0.00	0.00	0.00	0.39	2.54
2.20	1.97000	30.65	0.00	3.50	8.71	0.00	1.41	0.04	19.00	1.31	0.49	0.00	0.00	0.00	0.39	2.54
2.10	1.97000	30.66	0.00	3.48	8.58	0.00	1.41	0.04	19.86	1.31	0.49	0.00	0.00	0.00	0.39	2.54
2.00	1.97000	30.66	0.00	3.47	8.46	0.00	1.41	0.04	20.73	1.31	0.49	0.00	0.00	0.00	0.39	2.54
1.90	1.97000	30.67	0.00	3.46	8.34	0.00	1.41	0.04	21.59	1.31	0.49	0.00	0.00	0.00	0.39	2.55
1.80	1.97000	30.68	0.00	3.45	8.22	0.00	1.41	0.05	22.45	1.31	0.49	0.00	0.00	0.00	0.39	2.55
1.70	1.97000	30.68	0.00	3.45	8.10	0.00	1.41	0.05	23.32	1.31	0.49	0.00	0.00	0.00	0.39	2.55
1.60	1.97000	30.69	0.00	3.45	7.98	0.00	1.41	0.05	24.18	1.31	0.49	0.00	0.00	0.00	0.39	2.55
1.50	1.97000	30.70	0.00	3.46	7.86	0.00	1.41	0.05	25.05	1.31	0.49	0.00	0.00	0.00	0.39	2.55

1.40	1.97000	30.70	0.00	3.47	7.75	0.00	1.41	0.05	25.91	1.31	0.49	0.00	0.00	0.00	0.39	2.55
1.30	1.97000	30.71	0.00	3.48	7.64	0.00	1.41	0.05	26.77	1.31	0.49	0.00	0.00	0.00	0.39	2.55
1.20	1.97000	30.72	0.00	3.49	7.52	0.00	1.41	0.05	27.64	1.31	0.49	0.00	0.00	0.00	0.39	2.55
1.10	1.97000	30.73	0.00	3.51	7.41	0.00	1.41	0.05	28.50	1.31	0.49	0.00	0.00	0.00	0.39	2.55
1.00	1.97000	30.73	0.00	3.53	7.31	0.00	1.41	0.05	29.36	1.31	0.49	0.00	0.00	0.00	0.39	2.56
0.90	1.97000	30.74	0.00	3.56	7.20	0.00	1.41	0.05	30.23	1.31	0.49	0.00	0.00	0.00	0.39	2.56
0.80	1.97000	30.75	0.00	3.58	7.10	0.00	1.41	0.05	31.09	1.31	0.49	0.00	0.00	0.00	0.39	2.56
0.70	1.97000	30.75	0.00	3.61	6.99	0.00	1.41	0.05	31.95	1.31	0.49	0.00	0.00	0.00	0.40	2.56
0.60	1.97000	30.76	0.00	3.64	6.89	0.00	1.41	0.05	32.82	1.31	0.49	0.00	0.00	0.00	0.40	2.56
0.50	1.97000	30.77	0.00	3.68	6.79	0.00	1.41	0.05	33.68	1.31	0.49	0.00	0.00	0.00	0.40	2.56
0.40	1.97000	30.77	0.00	3.71	6.69	0.00	1.41	0.05	34.55	1.31	0.49	0.00	0.00	0.00	0.40	2.56
0.30	1.97000	30.78	0.00	3.75	6.59	0.00	1.41	0.05	35.41	1.31	0.49	0.00	0.00	0.00	0.40	2.56
0.20	1.97000	30.79	0.00	3.79	6.50	0.00	1.41	0.05	36.27	1.31	0.49	0.00	0.00	0.00	0.40	2.56
0.10	1.97000	30.79	0.00	3.83	6.40	0.00	1.41	0.05	37.14	1.31	0.49	0.00	0.00	0.00	0.40	2.57
0.00	1.97000	30.80	0.00	3.87	6.31	0.00	1.41	0.05	38.00	1.31	0.49	0.00	0.00	0.00	0.40	2.57

EXPANDED CAPSULE SUMMARY FOR Bayou Cholpe #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m≤/s	CHLA m	DISP m	DEPTH m	WIDTH m/s	VELO m/s	VELO mg/L	SAT 1/da	RATE 1/da	DECA 1/da	SETT 1/da	DECA 1/da	SETT 1/da	DECA 1/da	SOD g/m≤/d
															ADVEC	MEAN	DO	REAER	BOD1	BOD1	BOD2	BOD2	NH3	
	HDWTR		0.095	24.6	0.0	4.1	4.7	0.0	2.4	0.0	0.0													
	WASTELOAD # 001 (LA0003034) ENTERS HERE WITHOUT ANY FLOW																							
1	B1 1	55.50	0.095	24.7	0.0	4.2	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.3	10.952	0.16	0.00	0.00	0.00	0.26	0.94
2	B1 1	55.40	0.095	24.9	0.0	4.3	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.3	10.981	0.16	0.00	0.00	0.00	0.26	0.95
3	B1 1	55.30	0.095	25.0	0.0	4.5	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.3	11.011	0.16	0.00	0.00	0.00	0.27	0.96
4	B1 1	55.20	0.095	25.2	0.0	4.6	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.2	11.041	0.16	0.00	0.00	0.00	0.27	0.97
5	B1 1	55.10	0.095	25.3	0.0	4.7	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.2	11.071	0.17	0.00	0.00	0.00	0.28	0.98
6	B1 1	55.00	0.095	25.5	0.0	4.8	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.2	11.100	0.17	0.00	0.00	0.00	0.28	0.99
7	B1 1	54.90	0.095	25.6	0.0	4.9	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.2	11.130	0.17	0.00	0.00	0.00	0.28	1.00
8	B1 1	54.80	0.095	25.8	0.0	5.0	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.1	11.160	0.17	0.00	0.00	0.00	0.29	1.01
9	B1 1	54.70	0.095	25.9	0.0	5.1	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.1	11.190	0.17	0.00	0.00	0.00	0.29	1.02
10	B1 1	54.60	0.095	26.1	0.0	5.1	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.1	11.220	0.17	0.00	0.00	0.00	0.30	1.03
11	B1 1	54.50	0.095	26.2	0.0	5.2	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.1	11.250	0.17	0.00	0.00	0.00	0.30	1.04
12	B1 1	54.40	0.095	26.4	0.0	5.3	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.1	11.280	0.17	0.00	0.00	0.00	0.31	1.04
13	B1 1	54.30	0.095	26.5	0.0	5.4	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.0	11.309	0.18	0.00	0.00	0.00	0.31	1.05
14	B1 1	54.20	0.095	26.7	0.0	5.4	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.0	11.340	0.18	0.00	0.00	0.00	0.32	1.06
15	B1 1	54.10	0.095	26.8	0.0	5.5	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.0	11.370	0.18	0.00	0.00	0.00	0.32	1.07
16	B1 1	54.00	0.095	26.9	0.0	5.6	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.0	11.400	0.18	0.00	0.00	0.00	0.33	1.08
17	B1 1	53.90	0.095	27.1	0.0	5.7	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	8.0	11.429	0.18	0.00	0.00	0.00	0.33	1.09
18	B1 1	53.80	0.095	27.2	0.0	5.7	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.9	11.459	0.18	0.00	0.00	0.00	0.34	1.10
19	B1 1	53.70	0.095	27.4	0.0	5.8	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.9	11.490	0.18	0.00	0.00	0.00	0.34	1.11
20	B1 1	53.60	0.095	27.5	0.0	5.8	4.7	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.9	11.520	0.18	0.00	0.00	0.00	0.35	1.12
21	B1 1	53.50	0.095	27.7	0.0	5.9	4.6	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.9	11.550	0.18	0.00	0.00	0.00	0.35	1.14
22	B1 1	53.40	0.095	27.8	0.0	5.9	4.6	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.9	11.580	0.19	0.00	0.00	0.00	0.35	1.15
23	B1 1	53.30	0.095	28.0	0.0	6.0	4.6	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.8	11.610	0.19	0.00	0.00	0.00	0.36	1.16
24	B1 1	53.20	0.095	28.1	0.0	6.0	4.6	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.8	11.640	0.19	0.00	0.00	0.00	0.36	1.17
25	B1 1	53.10	0.095	28.3	0.0	6.1	4.6	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.8	11.670	0.19	0.00	0.00	0.00	0.37	1.18
26	B1 1	53.00	0.095	28.4	0.0	6.1	4.6	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.8	11.700	0.19	0.00	0.00	0.00	0.37	1.19
27	B1 1	52.90	0.095	28.6	0.0	6.2	4.6	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.8	11.731	0.19	0.00	0.00	0.00	0.38	1.20
28	B1 1	52.80	0.095	28.7	0.0	6.2	4.6	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.7	11.761	0.19	0.00	0.00	0.00	0.38	1.21
29	B1 1	52.70	0.095	28.9	0.0	6.2	4.6	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.7	11.791	0.20	0.00	0.00	0.00	0.39	1.22
30	B1 1	52.60	0.095	29.0	0.0	6.3	4.6	0.0	2.4	0.0	0.0	0.0	0.25	1.0	0.379	0.379	7.7	11.822	0.20	0.00	0.00	0.00	0.39	1.23
31	B2 2	52.50	0.101	29.0	0.0	6.0	4.8	0.0	2.3	0.0	0.0	0.0	1.00	10.0	0.010	0.010	7.7	0.828	0.20	0.00	0.00	0.00	0.39	1.23
32	B2 2	52.40	0.107	29.0	0.0	5.8	5.0	0.0	2.3	0.0	0.0	0.0	1.00	10.0	0.011	0.011	7.7	0.828	0.20	0.00	0.00	0.00	0.39	1.23
33	B2 2	52.30	0.113	29.0	0.0	5.7	5.1	0.0	2.2	0.0	0.0	0.0	1.00	10.0	0.011	0.011	7.7	0.828	0.20	0.00	0.00	0.00	0.39	1.23
34	B2 2	52.20	0.119	29.0	0.0	5.5	5.2	0.0	2.2	0.0	0.0	0.0	1.00	10.0	0.012	0.012	7.7	0.828	0.20	0.00	0.00	0.00	0.38	1.23
35	B2 2	52.10	0.126	29.0	0.0	5.4	5.3	0.0	2.2	0.0	0.0	0.0	1.00	10.0	0.013	0.013	7.7	0.828	0.20	0.00	0.00	0.00	0.38	1.23
36	B2 2	52.00	0.132	29.0	0.0	5.3	5.4	0.0	2.1	0.0	0.0	0.0	1.00	10.0	0.013	0.013	7.7	0.828	0.20	0.00	0.00	0.00	0.38	1.23
37	B2 2	51.90	0.138	29.0	0.0	5.2	5.5	0.0	2.1	0.0	0.0	0.0	1.00	10.0	0.014	0.014	7.7	0.828	0.20	0.00	0.00	0.00	0.38	1.23
38	B2 2	51.80	0.144	29.0	0.0	5.2	5.6	0.0	2.1	0.0	0.0	0.0	1.00	10.0	0.014	0.014	7.7	0.828	0.20	0.00	0.00	0.00	0.38	1.23
39	B2 2	51.70	0.150	29.0	0.0	5.1	5.6	0.0	2.0	0.0	0.0	0.0	1.00	10.0	0.015	0.015	7.7	0.828	0.20	0.00	0.00	0.00	0.38	1.23
40	B2 2	51.60	0.156	29.0	0.0	5.0	5.7	0.0	2.0	0.0	0.0	0.0	1.00	10.0	0.016	0.016	7.7	0.828	0.20	0.00	0.00	0.00	0.38	1.23
41	B2 2	51.50	0.163	29.0	0.0	5.0	5.7	0.0	2.0	0.0	0.0	0.0	1.00	10.0	0.016	0.016	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
42	B2 2	51.40	0.169	29.0	0.0	4.9	5.8	0.0	2.0	0.0	0.0	0.0	1.00	10.0	0.017	0.017	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23

43	B2	2	51.30	0.175	29.0	0.0	4.9	5.8	0.0	1.9	0.0	0.0	0.0	1.00	10.0	0.017	0.017	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
44	B2	2	51.20	0.181	29.0	0.0	4.9	5.9	0.0	1.9	0.0	0.0	0.0	1.00	10.0	0.018	0.018	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
45	B2	2	51.10	0.187	29.0	0.0	4.8	5.9	0.0	1.9	0.0	0.0	0.0	1.00	10.0	0.019	0.019	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
46	B2	2	51.00	0.193	29.0	0.0	4.8	6.0	0.0	1.9	0.0	0.0	0.0	1.00	10.0	0.019	0.019	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
47	B2	2	50.90	0.199	29.0	0.0	4.8	6.0	0.0	1.9	0.0	0.0	0.0	1.00	10.0	0.020	0.020	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
48	B2	2	50.80	0.206	29.0	0.0	4.8	6.0	0.0	1.9	0.0	0.0	0.0	1.00	10.0	0.021	0.021	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
49	B2	2	50.70	0.212	29.0	0.0	4.7	6.1	0.0	1.9	0.0	0.0	0.0	1.00	10.0	0.021	0.021	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
50	B2	2	50.60	0.218	29.0	0.0	4.7	6.1	0.0	1.8	0.0	0.0	0.0	1.00	10.0	0.022	0.022	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
51	B2	2	50.50	0.224	29.0	0.0	4.7	6.1	0.0	1.8	0.0	0.0	0.0	1.00	10.0	0.022	0.022	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
52	B2	2	50.40	0.230	29.0	0.0	4.7	6.1	0.0	1.8	0.0	0.0	0.0	1.00	10.0	0.023	0.023	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
53	B2	2	50.30	0.236	29.0	0.0	4.7	6.2	0.0	1.8	0.0	0.0	0.0	1.00	10.0	0.024	0.024	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
54	B2	2	50.20	0.243	29.0	0.0	4.6	6.2	0.0	1.8	0.0	0.0	0.0	1.00	10.0	0.024	0.024	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
55	B2	2	50.10	0.249	29.0	0.0	4.6	6.2	0.0	1.8	0.0	0.0	0.0	1.00	10.0	0.025	0.025	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
56	B2	2	50.00	0.255	29.0	0.0	4.6	6.2	0.0	1.8	0.0	0.0	0.0	1.00	10.0	0.025	0.025	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
57	B2	2	49.90	0.261	29.0	0.0	4.6	6.2	0.0	1.8	0.0	0.0	0.0	1.00	10.0	0.026	0.026	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
58	B2	2	49.80	0.267	29.0	0.0	4.6	6.3	0.0	1.8	0.0	0.0	0.0	1.00	10.0	0.027	0.027	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
59	B2	2	49.70	0.273	29.0	0.0	4.6	6.3	0.0	1.8	0.0	0.0	0.0	1.00	10.0	0.027	0.027	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
60	B2	2	49.60	0.279	29.0	0.0	4.6	6.3	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.028	0.028	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
61	B2	2	49.50	0.286	29.0	0.0	4.6	6.3	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.029	0.029	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
62	B2	2	49.40	0.292	29.0	0.0	4.6	6.3	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.029	0.029	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
63	B2	2	49.30	0.298	29.0	0.0	4.5	6.3	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.030	0.030	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
64	B2	2	49.20	0.304	29.0	0.0	4.5	6.3	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.030	0.030	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
65	B2	2	49.10	0.310	29.0	0.0	4.5	6.4	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.031	0.031	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
66	B2	2	49.00	0.316	29.0	0.0	4.5	6.4	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.032	0.032	7.7	0.828	0.20	0.00	0.00	0.00	0.37	1.23
67	B2	2	48.90	0.323	29.0	0.0	4.5	6.4	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.032	0.032	7.7	0.835	0.20	0.00	0.00	0.00	0.37	1.23
68	B2	2	48.80	0.329	29.0	0.0	4.5	6.4	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.033	0.033	7.7	0.843	0.20	0.00	0.00	0.00	0.37	1.23
69	B2	2	48.70	0.335	29.0	0.0	4.5	6.4	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.033	0.033	7.7	0.851	0.20	0.00	0.00	0.00	0.37	1.23
70	B2	2	48.60	0.341	29.0	0.0	4.5	6.4	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.034	0.034	7.7	0.858	0.20	0.00	0.00	0.00	0.37	1.23
71	B2	2	48.50	0.347	29.0	0.0	4.5	6.4	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.035	0.035	7.7	0.866	0.20	0.00	0.00	0.00	0.37	1.23
72	B2	2	48.40	0.353	29.0	0.0	4.5	6.4	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.035	0.035	7.7	0.874	0.20	0.00	0.00	0.00	0.37	1.23

EXPANDED CAPSULE SUMMARY FOR Bayou Cholpe #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m≤/s	ADVEC MEAN CHLA m	DO m	REAER m/s	BOD1 DISP m/s	BOD1 DEPTH mg/L	BOD2 WIDTH 1/da	BOD2 VELO 1/da	NH3 VELO 1/da	SAT 1/da	RATE DECA 1/da	SETT DECA g/m≤/d	SETT DECA	SOD
73	B2 2	48.30	0.360	29.0	0.0	4.5	6.4	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.036	0.036	7.7	0.881	0.20	0.00	0.00	0.00	0.37	1.23
74	B2 2	48.20	0.366	29.0	0.0	4.5	6.4	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.037	0.037	7.7	0.889	0.20	0.00	0.00	0.00	0.37	1.23
75	B2 2	48.10	0.372	29.0	0.0	4.5	6.5	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.037	0.037	7.7	0.896	0.20	0.00	0.00	0.00	0.37	1.23
76	B2 2	48.00	0.378	29.0	0.0	4.5	6.5	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.038	0.038	7.7	0.904	0.20	0.00	0.00	0.00	0.37	1.23
77	B2 2	47.90	0.384	29.0	0.0	4.5	6.5	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.038	0.038	7.7	0.911	0.20	0.00	0.00	0.00	0.37	1.23
78	B2 2	47.80	0.390	29.0	0.0	4.5	6.5	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.039	0.039	7.7	0.918	0.20	0.00	0.00	0.00	0.37	1.23
79	B2 2	47.70	0.396	29.0	0.0	4.5	6.5	0.0	1.7	0.0	0.0	0.0	1.00	10.0	0.040	0.040	7.7	0.925	0.20	0.00	0.00	0.00	0.37	1.23
80	B2 2	47.60	0.403	29.0	0.0	4.5	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.040	0.040	7.7	0.933	0.20	0.00	0.00	0.00	0.37	1.23
81	B2 2	47.50	0.409	29.0	0.0	4.5	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.041	0.041	7.7	0.940	0.20	0.00	0.00	0.00	0.37	1.23
82	B2 2	47.40	0.415	29.0	0.0	4.5	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.041	0.041	7.7	0.947	0.20	0.00	0.00	0.00	0.37	1.23
83	B2 2	47.30	0.421	29.0	0.0	4.5	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.042	0.042	7.7	0.954	0.20	0.00	0.00	0.00	0.37	1.23
84	B2 2	47.20	0.427	29.0	0.0	4.5	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.043	0.043	7.7	0.961	0.20	0.00	0.00	0.00	0.37	1.23
85	B2 2	47.10	0.433	29.0	0.0	4.6	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.043	0.043	7.7	0.968	0.20	0.00	0.00	0.00	0.37	1.23
86	B2 2	47.00	0.440	29.0	0.0	4.6	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.044	0.044	7.7	0.974	0.20	0.00	0.00	0.00	0.37	1.23
87	B2 2	46.90	0.446	29.0	0.0	4.6	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.045	0.045	7.7	0.981	0.20	0.00	0.00	0.00	0.37	1.23
88	B2 2	46.80	0.452	29.0	0.0	4.6	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.045	0.045	7.7	0.988	0.20	0.00	0.00	0.00	0.37	1.23
89	B2 2	46.70	0.458	29.0	0.0	4.6	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.046	0.046	7.7	0.995	0.20	0.00	0.00	0.00	0.37	1.23
90	B2 2	46.60	0.464	29.0	0.0	4.6	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.046	0.046	7.7	1.001	0.20	0.00	0.00	0.00	0.37	1.23
91	B2 2	46.50	0.470	29.0	0.0	4.6	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.047	0.047	7.7	1.008	0.20	0.00	0.00	0.00	0.37	1.23
92	B2 2	46.40	0.476	29.0	0.0	4.6	6.5	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.048	0.048	7.7	1.015	0.20	0.00	0.00	0.00	0.37	1.23
93	B2 2	46.30	0.483	29.0	0.0	4.6	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.048	0.048	7.7	1.021	0.20	0.00	0.00	0.00	0.37	1.23
94	B2 2	46.20	0.489	29.0	0.0	4.6	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.049	0.049	7.7	1.028	0.20	0.00	0.00	0.00	0.37	1.23
95	B2 2	46.10	0.495	29.0	0.0	4.6	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.049	0.049	7.7	1.034	0.20	0.00	0.00	0.00	0.37	1.23
96	B2 2	46.00	0.501	29.0	0.0	4.6	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.050	0.050	7.7	1.040	0.20	0.00	0.00	0.00	0.37	1.23
97	B2 2	45.90	0.507	29.0	0.0	4.6	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.051	0.051	7.7	1.047	0.20	0.00	0.00	0.00	0.37	1.23
98	B2 2	45.80	0.513	29.0	0.0	4.6	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.051	0.051	7.7	1.053	0.20	0.00	0.00	0.00	0.37	1.23
99	B2 2	45.70	0.520	29.0	0.0	4.6	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.052	0.052	7.7	1.059	0.20	0.00	0.00	0.00	0.37	1.23
100	B2 2	45.60	0.526	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.053	0.053	7.7	1.066	0.20	0.00	0.00	0.00	0.37	1.23
101	B2 2	45.50	0.532	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.053	0.053	7.7	1.072	0.20	0.00	0.00	0.00	0.37	1.23
102	B2 2	45.40	0.538	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.054	0.054	7.7	1.078	0.20	0.00	0.00	0.00	0.37	1.23
103	B2 2	45.30	0.544	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.054	0.054	7.7	1.084	0.20	0.00	0.00	0.00	0.37	1.23
104	B2 2	45.20	0.550	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.055	0.055	7.7	1.090	0.20	0.00	0.00	0.00	0.37	1.23
105	B2 2	45.10	0.556	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.056	0.056	7.7	1.096	0.20	0.00	0.00	0.00	0.37	1.23
106	B2 2	45.00	0.563	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.056	0.056	7.7	1.103	0.20	0.00	0.00	0.00	0.37	1.23
107	B2 2	44.90	0.569	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.057	0.057	7.7	1.109	0.20	0.00	0.00	0.00	0.37	1.23
108	B2 2	44.80	0.575	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.057	0.057	7.7	1.115	0.20	0.00	0.00	0.00	0.37	1.23
109	B2 2	44.70	0.581	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.058	0.058	7.7	1.120	0.20	0.00	0.00	0.00	0.37	1.23
110	B2 2	44.60	0.587	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.059	0.059	7.7	1.126	0.20	0.00	0.00	0.00	0.37	1.23
111	B2 2	44.50	0.593	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.059	0.059	7.7	1.132	0.20	0.00	0.00	0.00	0.37	1.23
112	B2 2	44.40	0.600	29.0	0.0	4.7	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.060	0.060	7.7	1.138	0.20	0.00	0.00	0.00	0.37	1.23
113	B2 2	44.30	0.606	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.061	0.061	7.7	1.144	0.20	0.00	0.00	0.00	0.37	1.23
114	B2 2	44.20	0.612	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.061	0.061	7.7	1.150	0.20	0.00	0.00	0.00	0.37	1.23
115	B2 2	44.10	0.618	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.062	0.062	7.7	1.156	0.20	0.00	0.00	0.00	0.37	1.23
116	B2 2	44.00	0.624	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.062	0.062	7.7	1.161	0.20	0.00	0.00	0.00	0.37	1.23

117	B2	2	43.90	0.630	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.063	0.063	7.7	1.167	0.20	0.00	0.00	0.00	0.37	1.23
118	B2	2	43.80	0.636	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.064	0.064	7.7	1.173	0.20	0.00	0.00	0.00	0.37	1.23
119	B2	2	43.70	0.643	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.064	0.064	7.7	1.178	0.20	0.00	0.00	0.00	0.37	1.23
120	B2	2	43.60	0.649	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.065	0.065	7.7	1.184	0.20	0.00	0.00	0.00	0.37	1.23
121	B2	2	43.50	0.655	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.065	0.065	7.7	1.190	0.20	0.00	0.00	0.00	0.37	1.23
122	B2	2	43.40	0.661	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.066	0.066	7.7	1.195	0.20	0.00	0.00	0.00	0.37	1.23
123	B2	2	43.30	0.667	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.067	0.067	7.7	1.201	0.20	0.00	0.00	0.00	0.37	1.23
124	B2	2	43.20	0.673	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.067	0.067	7.7	1.206	0.20	0.00	0.00	0.00	0.37	1.23
125	B2	2	43.10	0.680	29.0	0.0	4.8	6.6	0.0	1.6	0.0	0.0	0.0	1.00	10.0	0.068	0.068	7.7	1.212	0.20	0.00	0.00	0.00	0.37	1.23
TRIBUTARY # 126 (Bayou Poydras #1) ENTERS HERE																									
229	CH	5	43.00	0.937	29.1	0.0	4.3	13.2	0.0	1.8	0.1	1.5	0.0	2.40	34.0	0.011	0.011	7.7	0.345	0.17	0.00	0.00	0.00	0.36	5.31
WASTELOAD # 230 (Stumpy Bayou) ENTERS HERE																									
230	CH	5	42.90	1.316	29.1	0.0	3.9	12.3	0.0	1.6	0.1	3.1	0.0	2.40	34.0	0.016	0.016	7.7	0.345	0.17	0.00	0.00	0.00	0.36	5.32
231	CH	5	42.80	1.316	29.2	0.0	3.7	12.3	0.0	1.6	0.1	4.6	0.0	2.40	34.0	0.016	0.016	7.7	0.346	0.17	0.00	0.00	0.00	0.35	5.34
232	CH	5	42.70	1.316	29.2	0.0	3.6	12.3	0.0	1.6	0.1	6.1	0.0	2.40	34.0	0.016	0.016	7.7	0.346	0.17	0.00	0.00	0.00	0.35	5.36
233	CH	5	42.60	1.316	29.3	0.0	3.4	12.4	0.0	1.5	0.1	7.7	0.0	2.40	34.0	0.016	0.016	7.7	0.346	0.17	0.00	0.00	0.00	0.34	5.38
234	CH	5	42.50	1.316	29.3	0.0	3.2	12.4	0.0	1.5	0.1	9.2	0.0	2.40	34.0	0.016	0.016	7.6	0.347	0.17	0.00	0.00	0.00	0.34	5.40
235	CH	5	42.40	1.316	29.4	0.0	3.1	12.4	0.0	1.5	0.1	10.7	0.0	2.40	34.0	0.016	0.016	7.6	0.347	0.17	0.00	0.00	0.00	0.34	5.41
236	CH	5	42.30	1.316	29.4	0.0	2.9	12.4	0.0	1.5	0.1	12.3	0.0	2.40	34.0	0.016	0.016	7.6	0.347	0.17	0.00	0.00	0.00	0.33	5.43
237	CH	5	42.20	1.316	29.5	0.0	2.8	12.4	0.0	1.5	0.1	13.8	0.0	2.40	34.0	0.016	0.016	7.6	0.348	0.17	0.00	0.00	0.00	0.33	5.45
238	CH	5	42.10	1.316	29.5	0.0	2.7	12.4	0.0	1.5	0.1	15.3	0.0	2.40	34.0	0.016	0.016	7.6	0.348	0.17	0.00	0.00	0.00	0.33	5.47
239	CH	5	42.00	1.316	29.6	0.0	2.6	12.5	0.0	1.5	0.1	16.9	0.0	2.40	34.0	0.016	0.016	7.6	0.348	0.17	0.00	0.00	0.00	0.32	5.49
240	CH	5	41.90	1.316	29.6	0.0	2.5	12.5	0.0	1.5	0.1	18.4	0.0	2.40	34.0	0.016	0.016	7.6	0.349	0.17	0.00	0.00	0.00	0.32	5.51
241	CH	5	41.80	1.316	29.7	0.0	2.4	12.5	0.0	1.5	0.1	20.0	0.0	2.40	34.0	0.016	0.016	7.6	0.349	0.17	0.00	0.00	0.00	0.32	5.52
242	CH	5	41.70	1.316	29.7	0.0	2.3	12.5	0.0	1.5	0.1	21.5	0.0	2.40	34.0	0.016	0.016	7.6	0.349	0.17	0.00	0.00	0.00	0.31	5.54
243	CH	5	41.60	1.316	29.8	0.0	2.3	12.5	0.0	1.5	0.1	23.0	0.0	2.40	34.0	0.016	0.016	7.6	0.350	0.17	0.00	0.00	0.00	0.31	5.56
244	CH	5	41.50	1.316	29.9	0.0	2.2	12.5	0.0	1.5	0.1	24.6	0.0	2.40	34.0	0.016	0.016	7.6	0.350	0.17	0.00	0.00	0.00	0.31	5.58
245	CH	5	41.40	1.316	29.9	0.0	2.2	12.5	0.0	1.5	0.1	26.1	0.0	2.40	34.0	0.016	0.016	7.6	0.350	0.17	0.00	0.00	0.00	0.31	5.60
246	CH	5	41.30	1.316	30.0	0.0	2.1	12.5	0.0	1.5	0.1	27.6	0.0	2.40	34.0	0.016	0.016	7.6	0.351	0.17	0.00	0.00	0.00	0.31	5.62
247	CH	5	41.20	1.316	30.0	0.0	2.1	12.6	0.0	1.5	0.1	29.2	0.0	2.40	34.0	0.016	0.016	7.6	0.351	0.17	0.00	0.00	0.00	0.31	5.64

EXPANDED CAPSULE SUMMARY FOR Bayou Cholpe #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	ADVEC m≤/s	NH3 mg/L	MEAN CHLA µg/L	DO m	REAER m	DISP m/s	BOD1 m/s	BOD1 mg/L	BOD2 1/da	BOD2 1/da	NH3 1/da	VELO 1/da	VELO 1/da	SAT 1/da	RATE 1/da	DECA g/m≤/d	SETT	DECA	SETT	DECA	SOD
248	CH 5	41.10	1.316	30.1	0.0	2.1	12.6	0.0	1.5	0.1	30.7	0.0	2.40	34.0	0.016	0.016	7.5	0.351	0.17	0.00	0.00	0.00	0.31	5.66						
249	CH 5	41.00	1.316	30.1	0.0	2.1	12.6	0.0	1.5	0.1	32.2	0.0	2.40	34.0	0.016	0.016	7.5	0.352	0.18	0.00	0.00	0.00	0.31	5.68						
250	CH 5	40.90	1.316	30.2	0.0	2.1	12.6	0.0	1.5	0.1	33.8	0.0	2.40	34.0	0.016	0.016	7.5	0.352	0.18	0.00	0.00	0.00	0.31	5.69						
251	CH 5	40.80	1.316	30.2	0.0	2.1	12.6	0.0	1.5	0.1	35.3	0.0	2.40	34.0	0.016	0.016	7.5	0.352	0.18	0.00	0.00	0.00	0.31	5.71						
252	CH 5	40.70	1.316	30.3	0.0	2.1	12.6	0.0	1.5	0.1	36.8	0.0	2.40	34.0	0.016	0.016	7.5	0.353	0.18	0.00	0.00	0.00	0.31	5.73						
253	CH 5	40.60	1.316	30.3	0.0	2.1	12.6	0.0	1.5	0.1	38.4	0.0	2.40	34.0	0.016	0.016	7.5	0.353	0.18	0.00	0.00	0.00	0.31	5.75						
254	CH 5	40.50	1.316	30.4	0.0	2.1	12.6	0.0	1.5	0.1	39.9	0.0	2.40	34.0	0.016	0.016	7.5	0.353	0.18	0.00	0.00	0.00	0.32	5.77						
255	CH 5	40.40	1.316	30.4	0.0	2.1	12.6	0.0	1.5	0.1	41.4	0.0	2.40	34.0	0.016	0.016	7.5	0.354	0.18	0.00	0.00	0.00	0.32	5.79						
256	CH 5	40.30	1.316	30.5	0.0	2.2	12.6	0.0	1.5	0.1	43.0	0.0	2.40	34.0	0.016	0.016	7.5	0.354	0.18	0.00	0.00	0.00	0.32	5.81						
257	CH 5	40.20	1.316	30.6	0.0	2.2	12.6	0.0	1.5	0.1	44.5	0.0	2.40	34.0	0.016	0.016	7.5	0.354	0.18	0.00	0.00	0.00	0.33	5.83						
258	CH 5	40.10	1.316	30.6	0.0	2.3	12.6	0.0	1.5	0.1	46.0	0.0	2.40	34.0	0.016	0.016	7.5	0.355	0.18	0.00	0.00	0.00	0.33	5.85						
259	CH 5	40.00	1.316	30.7	0.0	2.4	12.6	0.0	1.5	0.1	47.6	0.0	2.40	34.0	0.016	0.016	7.5	0.355	0.18	0.00	0.00	0.00	0.34	5.87						
260	CH 5	39.90	1.316	30.7	0.0	2.4	12.7	0.0	1.5	0.1	49.1	0.0	2.40	34.0	0.016	0.016	7.5	0.355	0.18	0.00	0.00	0.00	0.34	5.89						
261	CH 5	39.80	1.316	30.8	0.0	2.5	12.7	0.0	1.5	0.1	50.7	0.0	2.40	34.0	0.016	0.016	7.5	0.355	0.18	0.00	0.00	0.00	0.35	5.91						
262	CH 5	39.70	1.316	30.8	0.0	2.6	12.7	0.0	1.5	0.1	52.2	0.0	2.40	34.0	0.016	0.016	7.5	0.356	0.18	0.00	0.00	0.00	0.35	5.93						
263	CH 5	39.60	1.316	30.9	0.0	2.7	12.7	0.0	1.5	0.1	53.7	0.0	2.40	34.0	0.016	0.016	7.4	0.356	0.18	0.00	0.00	0.00	0.36	5.95						
264	CH 5	39.50	1.316	30.9	0.0	2.8	12.7	0.0	1.5	0.1	55.3	0.0	2.40	34.0	0.016	0.016	7.4	0.356	0.18	0.00	0.00	0.00	0.37	5.97						
265	CH 5	39.40	1.316	31.0	0.0	2.9	12.7	0.0	1.5	0.1	56.8	0.0	2.40	34.0	0.016	0.016	7.4	0.357	0.18	0.00	0.00	0.00	0.37	5.99						
266	CH 5	39.30	1.316	31.0	0.0	3.0	12.7	0.0	1.5	0.1	58.3	0.0	2.40	34.0	0.016	0.016	7.4	0.357	0.18	0.00	0.00	0.00	0.38	6.01						
267	CH 5	39.20	1.316	31.1	0.0	3.1	12.7	0.0	1.5	0.1	59.9	0.0	2.40	34.0	0.016	0.016	7.4	0.357	0.18	0.00	0.00	0.00	0.39	6.03						
268	CH 5	39.10	1.316	31.1	0.0	3.2	12.7	0.0	1.5	0.1	61.4	0.0	2.40	34.0	0.016	0.016	7.4	0.358	0.18	0.00	0.00	0.00	0.39	6.05						
269	CH 5	39.00	1.316	31.2	0.0	3.3	12.7	0.0	1.5	0.1	62.9	0.0	2.40	34.0	0.016	0.016	7.4	0.358	0.18	0.00	0.00	0.00	0.40	6.07						
270	CH 5	38.90	1.316	31.2	0.0	3.4	12.7	0.0	1.5	0.1	64.5	0.0	2.40	34.0	0.016	0.016	7.4	0.358	0.18	0.00	0.00	0.00	0.40	6.09						
WASTELOAD # 271 (LAG530786) ENTERS HERE																														
271	CH 5	38.80	1.317	31.3	0.0	3.6	12.7	0.0	1.4	0.1	66.0	0.0	2.40	34.0	0.016	0.016	7.4	0.359	0.18	0.00	0.00	0.00	0.41	6.11						
TRIBUTARY # 272 (Chamberlin Canal #1) ENTERS HERE																														
347	CW 8	38.70	1.326	31.3	0.0	4.0	12.6	0.0	1.4	0.1	65.1	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.42	2.04						
348	CW 8	38.60	1.326	31.3	0.0	4.3	12.5	0.0	1.4	0.1	64.2	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.43	2.03						
349	CW 8	38.50	1.326	31.3	0.0	4.7	12.5	0.0	1.4	0.1	63.3	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.44	2.03						
350	CW 8	38.40	1.326	31.3	0.0	5.0	12.4	0.0	1.4	0.1	62.4	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.45	2.03						
351	CW 8	38.30	1.326	31.2	0.0	5.3	12.4	0.0	1.4	0.1	61.5	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.45	2.03						
352	CW 8	38.20	1.326	31.2	0.0	5.6	12.3	0.0	1.4	0.1	60.6	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.46	2.03						
353	CW 8	38.10	1.326	31.2	0.0	5.8	12.3	0.0	1.4	0.1	59.7	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.46	2.03						
354	CW 8	38.00	1.326	31.2	0.0	6.1	12.3	0.0	1.4	0.1	58.8	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.47	2.02						
355	CW 8	37.90	1.326	31.2	0.0	6.3	12.2	0.0	1.4	0.1	57.9	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.47	2.02						
356	CW 8	37.80	1.326	31.2	0.0	6.5	12.2	0.0	1.4	0.1	57.0	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.47	2.02						
357	CW 8	37.70	1.326	31.2	0.0	6.7	12.1	0.0	1.4	0.1	56.1	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.47	2.02						
358	CW 8	37.60	1.326	31.2	0.0	6.9	12.1	0.0	1.4	0.1	55.2	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.48	2.02						
359	CW 8	37.50	1.326	31.1	0.0	7.1	12.1	0.0	1.4	0.1	54.2	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.48	2.02						
360	CW 8	37.40	1.326	31.1	0.0	7.3	12.0	0.0	1.4	0.1	53.3	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.48	2.02						
361	CW 8	37.30	1.326	31.1	0.0	7.4	12.0	0.0	1.4	0.1	52.4	0.0	2.80	47.0	0.010	0.010	7.4	0.307	0.18	0.00	0.00	0.00	0.48	2.01						
362	CW 8	37.20	1.326	31.1	0.0	7.5	11.9	0.0	1.4	0.1	51.5	0.0	2.80	47.0	0.010	0.010	7.4	0.306	0.18	0.00	0.00	0.00	0.48	2.01						
363	CW 8	37.10	1.326	31.1	0.0	7.7	11.9	0.0	1.4	0.1	50.6	0.0	2.80	47.0	0.010	0.010	7.4	0.306	0.18	0.00	0.00	0.00	0.48	2.01						
364	CW 8	37.00	1.326	31.1	0.0	7.8	11.9	0.0	1.4	0.1	49.7	0.0	2.80	47.0	0.010	0.010	7.4	0.306	0.18	0.00	0.00	0.00	0.48	2.01						

365	CW	8	36.90	1.326	31.1	0.0	7.9	11.8	0.0	1.4	0.1	48.8	0.0	2.80	47.0	0.010	0.010	7.4	0.306	0.18	0.00	0.00	0.00	0.48	2.01
WASTELOAD # 366 (Unknown Trib #1) ENTERS HERE																									
366	CW	8	36.80	1.561	31.1	0.0	7.2	10.7	0.0	1.4	0.3	47.9	0.0	2.80	47.0	0.012	0.012	7.4	0.306	0.18	0.00	0.00	0.00	0.48	2.01
WASTELOAD # 367 (PS 120103) ENTERS HERE																									
367	CW	8	36.70	1.580	31.0	0.0	7.2	10.9	0.0	1.4	0.3	47.0	0.0	2.80	47.0	0.012	0.012	7.4	0.306	0.18	0.00	0.00	0.00	0.48	2.00
368	CW	8	36.60	1.580	31.0	0.0	7.3	10.9	0.0	1.4	0.3	46.1	0.0	2.80	47.0	0.012	0.012	7.4	0.306	0.18	0.00	0.00	0.00	0.48	2.00
369	CW	8	36.50	1.580	31.0	0.0	7.3	10.9	0.0	1.4	0.3	45.2	0.0	2.80	47.0	0.012	0.012	7.4	0.306	0.18	0.00	0.00	0.00	0.48	2.00
370	CW	8	36.40	1.580	31.0	0.0	7.4	10.9	0.0	1.4	0.3	44.3	0.0	2.80	47.0	0.012	0.012	7.4	0.306	0.18	0.00	0.00	0.00	0.48	2.00
371	CW	8	36.30	1.580	31.0	0.0	7.4	10.8	0.0	1.4	0.3	43.4	0.0	2.80	47.0	0.012	0.012	7.4	0.306	0.18	0.00	0.00	0.00	0.48	2.00
372	CW	8	36.20	1.580	31.0	0.0	7.5	10.8	0.0	1.4	0.2	42.5	0.0	2.80	47.0	0.012	0.012	7.4	0.306	0.18	0.00	0.00	0.00	0.48	2.00
373	CW	8	36.10	1.580	31.0	0.0	7.5	10.8	0.0	1.4	0.2	41.6	0.0	2.80	47.0	0.012	0.012	7.4	0.306	0.18	0.00	0.00	0.00	0.48	2.00
374	CW	8	36.00	1.580	31.0	0.0	7.5	10.8	0.0	1.4	0.2	40.7	0.0	2.80	47.0	0.012	0.012	7.4	0.306	0.18	0.00	0.00	0.00	0.48	1.99
375	CW	8	35.90	1.580	30.9	0.0	7.5	10.8	0.0	1.4	0.2	39.8	0.0	2.80	47.0	0.012	0.012	7.4	0.306	0.18	0.00	0.00	0.00	0.48	1.99
376	CW	8	35.80	1.580	30.9	0.0	7.5	10.8	0.0	1.4	0.2	38.9	0.0	2.80	47.0	0.012	0.012	7.4	0.306	0.18	0.00	0.00	0.00	0.48	1.99
377	CW	8	35.70	1.580	30.9	0.0	7.5	10.8	0.0	1.4	0.2	38.0	0.0	2.80	47.0	0.012	0.012	7.4	0.305	0.18	0.00	0.00	0.00	0.47	1.99
378	CW	8	35.60	1.580	30.9	0.0	7.5	10.8	0.0	1.4	0.2	37.1	0.0	2.80	47.0	0.012	0.012	7.4	0.305	0.18	0.00	0.00	0.00	0.47	1.99
379	CW	8	35.50	1.580	30.9	0.0	7.5	10.8	0.0	1.3	0.2	36.2	0.0	2.80	47.0	0.012	0.012	7.4	0.305	0.18	0.00	0.00	0.00	0.47	1.99
380	CW	8	35.40	1.580	30.9	0.0	7.5	10.8	0.0	1.3	0.2	35.3	0.0	2.80	47.0	0.012	0.012	7.4	0.305	0.18	0.00	0.00	0.00	0.47	1.98
381	CW	8	35.30	1.580	30.9	0.0	7.5	10.8	0.0	1.3	0.2	34.4	0.0	2.80	47.0	0.012	0.012	7.4	0.305	0.18	0.00	0.00	0.00	0.47	1.98
382	CW	8	35.20	1.580	30.9	0.0	7.4	10.8	0.0	1.3	0.2	33.5	0.0	2.80	47.0	0.012	0.012	7.4	0.305	0.18	0.00	0.00	0.00	0.47	1.98
383	CW	8	35.10	1.580	30.8	0.0	7.4	10.7	0.0	1.3	0.2	32.5	0.0	2.80	47.0	0.012	0.012	7.4	0.305	0.18	0.00	0.00	0.00	0.47	1.98
384	CW	8	35.00	1.580	30.8	0.0	7.4	10.7	0.0	1.3	0.2	31.6	0.0	2.80	47.0	0.012	0.012	7.5	0.305	0.18	0.00	0.00	0.00	0.47	1.98
385	CW	8	34.90	1.580	30.8	0.0	7.3	10.7	0.0	1.3	0.2	30.7	0.0	2.80	47.0	0.012	0.012	7.5	0.305	0.18	0.00	0.00	0.00	0.47	1.98
386	CW	8	34.80	1.580	30.8	0.0	7.3	10.7	0.0	1.3	0.2	29.8	0.0	2.80	47.0	0.012	0.012	7.5	0.305	0.18	0.00	0.00	0.00	0.47	1.97
387	CW	8	34.70	1.580	30.8	0.0	7.2	10.7	0.0	1.3	0.2	28.9	0.0	2.80	47.0	0.012	0.012	7.5	0.305	0.18	0.00	0.00	0.00	0.47	1.97
388	CW	8	34.60	1.580	30.8	0.0	7.2	10.7	0.0	1.3	0.2	28.0	0.0	2.80	47.0	0.012	0.012	7.5	0.305	0.18	0.00	0.00	0.00	0.47	1.97
389	CW	8	34.50	1.580	30.8	0.0	7.1	10.7	0.0	1.3	0.2	27.1	0.0	2.80	47.0	0.012	0.012	7.5	0.305	0.18	0.00	0.00	0.00	0.46	1.97
390	CW	8	34.40	1.580	30.8	0.0	7.1	10.7	0.0	1.3	0.1	26.2	0.0	2.80	47.0	0.012	0.012	7.5	0.305	0.18	0.00	0.00	0.00	0.46	1.97
391	CW	8	34.30	1.580	30.7	0.0	7.0	10.7	0.0	1.3	0.1	25.3	0.0	2.80	47.0	0.012	0.012	7.5	0.305	0.18	0.00	0.00	0.00	0.46	1.97
392	CW	8	34.20	1.580	30.7	0.0	6.9	10.7	0.0	1.3	0.1	24.4	0.0	2.80	47.0	0.012	0.012	7.5	0.305	0.18	0.00	0.00	0.00	0.46	1.97

EXPANDED CAPSULE SUMMARY FOR Bayou Cholpe #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m≤/s	CHLA m	DISP m	ADVEC MEAN DEPTH m	ADVEC MEAN WIDTH m/s	ADVEC MEAN VELO m/s	ADVEC MEAN VELO m/s	DO REAER mg/L	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	BOD2 DECA 1/da	NH3 SOD g/m≤/d
393	CW 8	34.10	1.580	30.7	0.0	6.8	10.7	0.0	1.3	0.1	23.5	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.46	1.96
394	CW 8	34.00	1.580	30.7	0.0	6.8	10.7	0.0	1.3	0.1	22.6	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.46	1.96
395	CW 8	33.90	1.580	30.7	0.0	6.7	10.7	0.0	1.3	0.1	21.7	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.46	1.96
396	CW 8	33.80	1.580	30.7	0.0	6.6	10.7	0.0	1.3	0.1	20.8	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.45	1.96
397	CW 8	33.70	1.580	30.7	0.0	6.5	10.7	0.0	1.3	0.1	19.9	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.45	1.96
398	CW 8	33.60	1.580	30.7	0.0	6.4	10.7	0.0	1.3	0.1	19.0	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.45	1.96
399	CW 8	33.50	1.580	30.6	0.0	6.3	10.7	0.0	1.3	0.1	18.1	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.45	1.96
400	CW 8	33.40	1.580	30.6	0.0	6.2	10.7	0.0	1.3	0.1	17.2	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.45	1.95
401	CW 8	33.30	1.580	30.6	0.0	6.1	10.7	0.0	1.3	0.1	16.3	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.45	1.95
402	CW 8	33.20	1.580	30.6	0.0	6.0	10.7	0.0	1.3	0.1	15.4	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.44	1.95
403	CW 8	33.10	1.580	30.6	0.0	5.9	10.7	0.0	1.3	0.1	14.5	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.44	1.95
404	CW 8	33.00	1.580	30.6	0.0	5.8	10.6	0.0	1.3	0.1	13.6	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.44	1.95
405	CW 8	32.90	1.580	30.6	0.0	5.6	10.6	0.0	1.3	0.1	12.7	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.44	1.95
406	CW 8	32.80	1.580	30.6	0.0	5.5	10.6	0.0	1.3	0.1	11.8	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.43	1.94
407	CW 8	32.70	1.580	30.5	0.0	5.4	10.6	0.0	1.3	0.1	10.8	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.43	1.94
408	CW 8	32.60	1.580	30.5	0.0	5.3	10.6	0.0	1.3	0.1	9.9	0.0	2.80	47.0	0.012	0.012	7.5	0.304	0.18	0.00	0.00	0.00	0.43	1.94
409	CW 8	32.50	1.580	30.5	0.0	5.1	10.6	0.0	1.3	0.1	9.0	0.0	2.80	47.0	0.012	0.012	7.5	0.303	0.18	0.00	0.00	0.00	0.43	1.94
410	CW 8	32.40	1.580	30.5	0.0	5.0	10.6	0.0	1.3	0.1	8.1	0.0	2.80	47.0	0.012	0.012	7.5	0.303	0.18	0.00	0.00	0.00	0.42	1.94
411	CW 8	32.30	1.580	30.5	0.0	4.9	10.6	0.0	1.3	0.1	7.2	0.0	2.80	47.0	0.012	0.012	7.5	0.303	0.18	0.00	0.00	0.00	0.42	1.94
412	CW 8	32.20	1.580	30.5	0.0	4.7	10.6	0.0	1.2	0.1	6.3	0.0	2.80	47.0	0.012	0.012	7.5	0.303	0.18	0.00	0.00	0.00	0.42	1.94
413	CW 8	32.10	1.580	30.5	0.0	4.6	10.6	0.0	1.2	0.1	5.4	0.0	2.80	47.0	0.012	0.012	7.5	0.303	0.18	0.00	0.00	0.00	0.41	1.93
414	CW 8	32.00	1.580	30.5	0.0	4.5	10.6	0.0	1.2	0.1	4.5	0.0	2.80	47.0	0.012	0.012	7.5	0.303	0.18	0.00	0.00	0.00	0.41	1.93
415	CW 8	31.90	1.580	30.4	0.0	4.3	10.6	0.0	1.2	0.1	3.6	0.0	2.80	47.0	0.012	0.012	7.5	0.303	0.18	0.00	0.00	0.00	0.41	1.93
416	CW 8	31.80	1.580	30.4	0.0	4.2	10.6	0.0	1.2	0.1	2.7	0.0	2.80	47.0	0.012	0.012	7.5	0.303	0.18	0.00	0.00	0.00	0.40	1.93
417	CW 8	31.70	1.580	30.4	0.0	4.0	10.6	0.0	1.2	0.1	1.8	0.0	2.80	47.0	0.012	0.012	7.5	0.303	0.18	0.00	0.00	0.00	0.40	1.93
418	CW 8	31.60	1.580	30.4	0.0	3.9	10.6	0.0	1.2	0.1	0.9	0.0	2.80	47.0	0.012	0.012	7.5	0.303	0.18	0.00	0.00	0.00	0.39	1.93
419	CW 8	31.50	1.580	30.4	0.0	3.7	10.6	0.0	1.2	0.1	0.0	0.0	2.80	47.0	0.012	0.012	7.5	0.303	0.18	0.00	0.00	0.00	0.39	1.93
TRIBUTARY # 420 (Intracoastal Waterwa) ENTERS HERE																								
554	I2 10	31.40	9.144	30.4	0.0	5.1	3.3	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.283	0.21	0.00	0.00	0.00	0.42	2.50
555	I2 10	31.30	9.144	30.4	0.0	5.0	3.3	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.283	0.21	0.00	0.00	0.00	0.42	2.50
556	I2 10	31.20	9.144	30.4	0.0	5.0	3.3	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.283	0.21	0.00	0.00	0.00	0.42	2.50
557	I2 10	31.10	9.144	30.4	0.0	5.0	3.3	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.42	2.50
558	I2 10	31.00	9.144	30.4	0.0	5.0	3.2	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.42	2.50
559	I2 10	30.90	9.144	30.4	0.0	4.9	3.2	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.42	2.50
560	I2 10	30.80	9.144	30.4	0.0	4.9	3.2	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.42	2.49
561	I2 10	30.70	9.144	30.3	0.0	4.9	3.2	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.42	2.49
562	I2 10	30.60	9.144	30.3	0.0	4.9	3.2	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.49
563	I2 10	30.50	9.144	30.3	0.0	4.8	3.2	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.49
564	I2 10	30.40	9.144	30.3	0.0	4.8	3.2	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.49
565	I2 10	30.30	9.144	30.3	0.0	4.8	3.2	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.49
WASTELOAD # 566 (LAG531616) ENTERS HERE																								
566	I2 10	30.20	9.144	30.3	0.0	4.8	3.2	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.49
567	I2 10	30.10	9.144	30.3	0.0	4.7	3.2	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.49
568	I2 10	30.00	9.144	30.3	0.0	4.7	3.2	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.49

569	I2	10	29.90	9.144	30.3	0.0	4.7	3.2	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.48
570	I2	10	29.80	9.144	30.3	0.0	4.7	3.2	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.48
571	I2	10	29.70	9.144	30.3	0.0	4.6	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.48
572	I2	10	29.60	9.144	30.3	0.0	4.6	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.48
573	I2	10	29.50	9.144	30.3	0.0	4.6	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.48
574	I2	10	29.40	9.144	30.3	0.0	4.6	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.41	2.48
575	I2	10	29.30	9.144	30.2	0.0	4.6	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.40	2.48
576	I2	10	29.20	9.144	30.2	0.0	4.5	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.40	2.48
577	I2	10	29.10	9.144	30.2	0.0	4.5	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.40	2.48
578	I2	10	29.00	9.144	30.2	0.0	4.5	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.40	2.47
579	I2	10	28.90	9.144	30.2	0.0	4.5	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.40	2.47
580	I2	10	28.80	9.144	30.2	0.0	4.4	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.40	2.47
581	I2	10	28.70	9.144	30.2	0.0	4.4	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.40	2.47
582	I2	10	28.60	9.144	30.2	0.0	4.4	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.40	2.47
583	I2	10	28.50	9.144	30.2	0.0	4.4	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.40	2.47
584	I2	10	28.40	9.144	30.2	0.0	4.4	3.1	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.40	2.47
585	I2	10	28.30	9.144	30.2	0.0	4.3	3.0	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.282	0.21	0.00	0.00	0.00	0.40	2.47
586	I2	10	28.20	9.144	30.2	0.0	4.3	3.0	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.40	2.47
587	I2	10	28.10	9.144	30.2	0.0	4.3	3.0	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.40	2.47
588	I2	10	28.00	9.144	30.2	0.0	4.3	3.0	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.40	2.46
589	I2	10	27.90	9.144	30.1	0.0	4.3	3.0	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.39	2.46
590	I2	10	27.80	9.144	30.1	0.0	4.2	3.0	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.39	2.46
591	I2	10	27.70	9.144	30.1	0.0	4.2	3.0	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.39	2.46
592	I2	10	27.60	9.144	30.1	0.0	4.2	3.0	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.39	2.46
593	I2	10	27.50	9.144	30.1	0.0	4.2	3.0	0.0	1.3	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.39	2.46
594	I2	10	27.40	9.144	30.1	0.0	4.2	3.0	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.39	2.46
595	I2	10	27.30	9.144	30.1	0.0	4.2	3.0	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.39	2.46
596	I2	10	27.20	9.144	30.1	0.0	4.1	3.0	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.39	2.46
597	I2	10	27.10	9.144	30.1	0.0	4.1	3.0	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.39	2.45
598	I2	10	27.00	9.144	30.1	0.0	4.1	3.0	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.39	2.45

EXPANDED CAPSULE SUMMARY FOR Bayou Cholpe #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 mg/L	ADVEC m≤/s	MEAN m	DO m	REAER m/s	BOD1 m/s	BOD1 mg/L	BOD2 1/da	BOD2 1/da	NH3 1/da	SAT 1/da	RATE 1/da	DECA	SETT	DECA	SETT	DECA	SOD g/m≤/d
599	I2 10	26.90	9.144	30.1	0.0	4.1	3.0	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.39	2.45
600	I2 10	26.80	9.144	30.1	0.0	4.1	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.5	0.281	0.21	0.00	0.00	0.00	0.39	2.45
601	I2 10	26.70	9.144	30.1	0.0	4.1	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.39	2.45
602	I2 10	26.60	9.144	30.1	0.0	4.0	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.39	2.45
603	I2 10	26.50	9.144	30.0	0.0	4.0	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.39	2.45
604	I2 10	26.40	9.144	30.0	0.0	4.0	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.38	2.45
605	I2 10	26.30	9.144	30.0	0.0	4.0	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.38	2.45
606	I2 10	26.20	9.144	30.0	0.0	4.0	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.38	2.44
607	I2 10	26.10	9.144	30.0	0.0	4.0	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.38	2.44
608	I2 10	26.00	9.144	30.0	0.0	3.9	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.38	2.44
609	I2 10	25.90	9.144	30.0	0.0	3.9	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.38	2.44
610	I2 10	25.80	9.144	30.0	0.0	3.9	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.38	2.44
611	I2 10	25.70	9.144	30.0	0.0	3.9	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.38	2.44
612	I2 10	25.60	9.144	30.0	0.0	3.9	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.38	2.44
613	I2 10	25.50	9.144	30.0	0.0	3.9	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.38	2.44
614	I2 10	25.40	9.144	30.0	0.0	3.9	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.281	0.21	0.00	0.00	0.00	0.38	2.44
615	I2 10	25.30	9.144	30.0	0.0	3.8	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.21	0.00	0.00	0.00	0.38	2.43
616	I2 10	25.20	9.144	30.0	0.0	3.8	2.9	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.21	0.00	0.00	0.00	0.38	2.43
617	I2 10	25.10	9.144	29.9	0.0	3.8	2.8	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.21	0.00	0.00	0.00	0.38	2.43
618	I2 10	25.00	9.144	29.9	0.0	3.8	2.8	0.0	1.4	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.21	0.00	0.00	0.00	0.38	2.43
619	I2 10	24.90	9.144	29.9	0.0	3.8	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.21	0.00	0.00	0.00	0.38	2.43
620	I2 10	24.80	9.144	29.9	0.0	3.8	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.21	0.00	0.00	0.00	0.37	2.43
621	I2 10	24.70	9.144	29.9	0.0	3.8	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.21	0.00	0.00	0.00	0.37	2.43
622	I2 10	24.60	9.144	29.9	0.0	3.8	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.43
WASTELOAD # 623 (Unknown Trib #2) ENTERS HERE																											
623	I2 10	24.50	9.144	29.9	0.0	3.7	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.43
624	I2 10	24.40	9.144	29.9	0.0	3.7	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.42
625	I2 10	24.30	9.144	29.9	0.0	3.7	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.42
626	I2 10	24.20	9.144	29.9	0.0	3.7	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.42
627	I2 10	24.10	9.144	29.9	0.0	3.7	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.42
628	I2 10	24.00	9.144	29.9	0.0	3.7	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.42
629	I2 10	23.90	9.144	29.9	0.0	3.7	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.42
630	I2 10	23.80	9.144	29.9	0.0	3.7	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.42
631	I2 10	23.70	9.144	29.9	0.0	3.6	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.42
632	I2 10	23.60	9.144	29.8	0.0	3.6	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.42
633	I2 10	23.50	9.144	29.8	0.0	3.6	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.42
634	I2 10	23.40	9.144	29.8	0.0	3.6	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.41
635	I2 10	23.30	9.144	29.8	0.0	3.6	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.41
636	I2 10	23.20	9.144	29.8	0.0	3.6	2.8	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.41
637	I2 10	23.10	9.144	29.8	0.0	3.6	2.7	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.37	2.41
638	I2 10	23.00	9.144	29.8	0.0	3.6	2.7	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.36	2.41
639	I2 10	22.90	9.144	29.8	0.0	3.6	2.7	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.36	2.41
640	I2 10	22.80	9.144	29.8	0.0	3.5	2.7	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.36	2.41
641	I2 10	22.70	9.144	29.8	0.0	3.5	2.7	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.36	2.41

642	I2	10	22.60	9.144	29.8	0.0	3.5	2.7	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.36	2.41
643	I2	10	22.50	9.144	29.8	0.0	3.5	2.7	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.280	0.20	0.00	0.00	0.00	0.36	2.40
644	I2	10	22.40	9.144	29.8	0.0	3.5	2.7	0.0	1.5	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.40
645	I2	10	22.30	9.144	29.8	0.0	3.5	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.40
646	I2	10	22.20	9.144	29.7	0.0	3.5	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.40
647	I2	10	22.10	9.144	29.7	0.0	3.5	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.40
648	I2	10	22.00	9.144	29.7	0.0	3.5	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.40
649	I2	10	21.90	9.144	29.7	0.0	3.5	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.40
650	I2	10	21.80	9.144	29.7	0.0	3.4	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.40
651	I2	10	21.70	9.144	29.7	0.0	3.4	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.40
652	I2	10	21.60	9.144	29.7	0.0	3.4	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.39
653	I2	10	21.50	9.144	29.7	0.0	3.4	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.39
654	I2	10	21.40	9.144	29.7	0.0	3.4	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.39
655	I2	10	21.30	9.144	29.7	0.0	3.4	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.39
WASTELOAD # 656 (Unknown Trib #3) ENTERS HERE																									
656	I2	10	21.20	9.144	29.7	0.0	3.4	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.39
657	I2	10	21.10	9.144	29.7	0.0	3.4	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.36	2.39
658	I2	10	21.00	9.144	29.7	0.0	3.4	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.39
659	I2	10	20.90	9.144	29.7	0.0	3.4	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.39
660	I2	10	20.80	9.144	29.6	0.0	3.4	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.39
661	I2	10	20.70	9.144	29.6	0.0	3.4	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.39
662	I2	10	20.60	9.144	29.6	0.0	3.3	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.38
663	I2	10	20.50	9.144	29.6	0.0	3.3	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.38
664	I2	10	20.40	9.144	29.6	0.0	3.3	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.38
665	I2	10	20.30	9.144	29.6	0.0	3.3	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.38
WASTELOAD # 666 (PS 120109#3) ENTERS HERE																									
666	I2	10	20.20	9.148	29.6	0.0	3.3	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.38
667	I2	10	20.10	9.148	29.6	0.0	3.3	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.38
668	I2	10	20.00	9.148	29.6	0.0	3.3	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.38
669	I2	10	19.90	9.148	29.6	0.0	3.3	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.38

EXPANDED CAPSULE SUMMARY FOR Bayou Cholpe #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m≤/s	CHLA m	DISP m	ADVEC MEAN DEPTH m	ADVEC MEAN WIDTH m	ADVEC MEAN VELO m/s	ADVEC 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/m≤/d
670	I2 10	19.80	9.148	29.6	0.0	3.3	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.38
671	I2 10	19.70	9.148	29.6	0.0	3.3	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.37
672	I2 10	19.60	9.148	29.6	0.0	3.3	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.37
673	I2 10	19.50	9.148	29.6	0.0	3.3	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.279	0.20	0.00	0.00	0.00	0.35	2.37
WASTELOAD # 674 (Unknown Trib #4) ENTERS HERE																								
674	I2 10	19.40	9.148	29.5	0.0	3.3	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.278	0.20	0.00	0.00	0.00	0.35	2.37
675	I2 10	19.30	9.148	29.5	0.0	3.3	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.278	0.20	0.00	0.00	0.00	0.35	2.37
676	I2 10	19.20	9.148	29.5	0.0	3.2	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.278	0.20	0.00	0.00	0.00	0.35	2.37
677	I2 10	19.10	9.148	29.5	0.0	3.2	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.040	0.040	7.6	0.278	0.20	0.00	0.00	0.00	0.35	2.37
WASTELOAD # 678 (Bayou Grosse Tete #2) ENTERS HERE																								
678	I2 10	19.00	10.507	29.5	0.0	3.1	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.37
679	I2 10	18.90	10.507	29.5	0.0	3.1	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.37
680	I2 10	18.80	10.507	29.5	0.0	3.1	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.37
681	I2 10	18.70	10.507	29.5	0.0	3.1	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.36
682	I2 10	18.60	10.507	29.5	0.0	3.1	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.36
683	I2 10	18.50	10.507	29.5	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.36
684	I2 10	18.40	10.507	29.5	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.36
685	I2 10	18.30	10.507	29.5	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.36
686	I2 10	18.20	10.507	29.5	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.36
687	I2 10	18.10	10.507	29.5	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.36
688	I2 10	18.00	10.507	29.4	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.36
689	I2 10	17.90	10.507	29.4	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.36
690	I2 10	17.80	10.507	29.4	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.35
691	I2 10	17.70	10.507	29.4	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.35
692	I2 10	17.60	10.507	29.4	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.34	2.35
693	I2 10	17.50	10.507	29.4	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.33	2.35
694	I2 10	17.40	10.507	29.4	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.33	2.35
695	I2 10	17.30	10.507	29.4	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.33	2.35
696	I2 10	17.20	10.507	29.4	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.33	2.35
697	I2 10	17.10	10.507	29.4	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.33	2.35
698	I2 10	17.00	10.507	29.4	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.33	2.35
699	I2 10	16.90	10.507	29.4	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.33	2.35
700	I2 10	16.80	10.507	29.4	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.33	2.34
701	I2 10	16.70	10.507	29.4	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.33	2.34
702	I2 10	16.60	10.507	29.3	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.278	0.20	0.00	0.00	0.00	0.33	2.34
WASTELOAD # 703 (LAG531362) ENTERS HERE																								
703	I2 10	16.50	10.507	29.3	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.277	0.20	0.00	0.00	0.00	0.33	2.34
704	I2 10	16.40	10.507	29.3	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.277	0.20	0.00	0.00	0.00	0.33	2.34
705	I2 10	16.30	10.507	29.3	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.277	0.20	0.00	0.00	0.00	0.33	2.34
706	I2 10	16.20	10.507	29.3	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.277	0.20	0.00	0.00	0.00	0.33	2.34
707	I2 10	16.10	10.507	29.3	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.277	0.20	0.00	0.00	0.00	0.33	2.34
708	I2 10	16.00	10.507	29.3	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.6	0.277	0.20	0.00	0.00	0.00	0.33	2.34
709	I2 10	15.90	10.507	29.3	0.0	3.0	2.6	0.0	1.7	0.1	0.0	0.0	3.00	76.0	0.046	0.046	7.7	0.277	0.20	0.00	0.00	0.00	0.33	2.34
TRIBUTARY # 710 (Bayou Plaquemine) ENTERS HERE																								

829	I3	12	15.80	11.347	29.3	0.0	2.9	4.3	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.260	0.31	0.00	0.00	0.00	0.33	1.26
830	I3	12	15.70	11.347	29.3	0.0	2.9	4.2	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.260	0.31	0.00	0.00	0.00	0.33	1.26
831	I3	12	15.60	11.347	29.3	0.0	2.9	4.2	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.260	0.31	0.00	0.00	0.00	0.33	1.26
832	I3	12	15.50	11.347	29.4	0.0	2.9	4.2	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.260	0.31	0.00	0.00	0.00	0.33	1.26
833	I3	12	15.40	11.347	29.4	0.0	2.8	4.1	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.260	0.31	0.00	0.00	0.00	0.33	1.26
834	I3	12	15.30	11.347	29.4	0.0	2.8	4.1	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.260	0.31	0.00	0.00	0.00	0.33	1.26
835	I3	12	15.20	11.347	29.4	0.0	2.8	4.1	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.260	0.31	0.00	0.00	0.00	0.33	1.27
836	I3	12	15.10	11.347	29.4	0.0	2.8	4.0	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.27
837	I3	12	15.00	11.347	29.4	0.0	2.8	4.0	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.27
838	I3	12	14.90	11.347	29.5	0.0	2.8	4.0	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.27
839	I3	12	14.80	11.347	29.5	0.0	2.8	3.9	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.27
840	I3	12	14.70	11.347	29.5	0.0	2.8	3.9	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.27
841	I3	12	14.60	11.347	29.5	0.0	2.7	3.9	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.27
842	I3	12	14.50	11.347	29.5	0.0	2.7	3.8	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.28
843	I3	12	14.40	11.347	29.5	0.0	2.7	3.8	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.28
844	I3	12	14.30	11.347	29.6	0.0	2.7	3.8	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.28
845	I3	12	14.20	11.347	29.6	0.0	2.7	3.7	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.28
846	I3	12	14.10	11.347	29.6	0.0	2.7	3.7	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.28
847	I3	12	14.00	11.347	29.6	0.0	2.7	3.7	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.28
848	I3	12	13.90	11.347	29.6	0.0	2.7	3.7	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.28
849	I3	12	13.80	11.347	29.6	0.0	2.7	3.6	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.261	0.31	0.00	0.00	0.00	0.33	1.28
850	I3	12	13.70	11.347	29.7	0.0	2.6	3.6	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.29
851	I3	12	13.60	11.347	29.7	0.0	2.6	3.6	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.29
852	I3	12	13.50	11.347	29.7	0.0	2.6	3.5	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.29
853	I3	12	13.40	11.347	29.7	0.0	2.6	3.5	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.29
854	I3	12	13.30	11.347	29.7	0.0	2.6	3.5	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.29
855	I3	12	13.20	11.347	29.7	0.0	2.6	3.5	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.29
856	I3	12	13.10	11.347	29.7	0.0	2.6	3.4	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.29
857	I3	12	13.00	11.347	29.8	0.0	2.6	3.4	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.29
858	I3	12	12.90	11.347	29.8	0.0	2.6	3.4	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.30

EXPANDED CAPSULE SUMMARY FOR Bayou Cholpe #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m≤/s	ADVEC CHLA m	MEAN DISP m	DO DEPTH m	REAER m/s	WIDTH m/s	BOD1 VELO mg/L	BOD1 VELO 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	DECA 1/da	NH3 SETT 1/da	DECA 1/da	SOD g/m≤/d
859	I3 12	12.80	11.347	29.8	0.0	2.6	3.3	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.30
860	I3 12	12.70	11.347	29.8	0.0	2.6	3.3	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.30
861	I3 12	12.60	11.347	29.8	0.0	2.6	3.3	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.30
862	I3 12	12.50	11.347	29.8	0.0	2.6	3.3	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.30
863	I3 12	12.40	11.347	29.9	0.0	2.5	3.2	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.262	0.31	0.00	0.00	0.00	0.33	1.30
864	I3 12	12.30	11.347	29.9	0.0	2.5	3.2	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.263	0.31	0.00	0.00	0.00	0.33	1.30
865	I3 12	12.20	11.347	29.9	0.0	2.5	3.2	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.263	0.32	0.00	0.00	0.00	0.33	1.31
866	I3 12	12.10	11.347	29.9	0.0	2.5	3.2	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.263	0.32	0.00	0.00	0.00	0.33	1.31
867	I3 12	12.00	11.347	29.9	0.0	2.5	3.1	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.263	0.32	0.00	0.00	0.00	0.33	1.31
868	I3 12	11.90	11.347	29.9	0.0	2.5	3.1	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.263	0.32	0.00	0.00	0.00	0.33	1.31
869	I3 12	11.80	11.347	30.0	0.0	2.5	3.1	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.263	0.32	0.00	0.00	0.00	0.33	1.31
870	I3 12	11.70	11.347	30.0	0.0	2.5	3.1	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.263	0.32	0.00	0.00	0.00	0.33	1.31
871	I3 12	11.60	11.347	30.0	0.0	2.5	3.0	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.263	0.32	0.00	0.00	0.00	0.33	1.31
872	I3 12	11.50	11.347	30.0	0.0	2.5	3.0	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.263	0.32	0.00	0.00	0.00	0.33	1.31
873	I3 12	11.40	11.347	30.0	0.0	2.5	3.0	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.263	0.32	0.00	0.00	0.00	0.33	1.32
874	I3 12	11.30	11.347	30.0	0.0	2.5	3.0	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.263	0.32	0.00	0.00	0.00	0.33	1.32
875	I3 12	11.20	11.347	30.1	0.0	2.5	2.9	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.6	0.263	0.32	0.00	0.00	0.00	0.33	1.32
876	I3 12	11.10	11.347	30.1	0.0	2.5	2.9	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.5	0.263	0.32	0.00	0.00	0.00	0.33	1.32
877	I3 12	11.00	11.347	30.1	0.0	2.5	2.9	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.5	0.264	0.32	0.00	0.00	0.00	0.33	1.32
878	I3 12	10.90	11.347	30.1	0.0	2.5	2.9	0.0	1.7	0.1	0.0	0.0	3.20	80.0	0.044	0.044	7.5	0.264	0.32	0.00	0.00	0.00	0.33	1.32
TRIBUTARY # 879 (Upper Grand River #1) ENTERS HERE																								
1047	I4 16	10.80	18.226	30.1	0.0	2.9	3.5	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1048	I4 16	10.70	18.226	30.1	0.0	2.9	3.5	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1049	I4 16	10.60	18.226	30.1	0.0	2.9	3.5	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1050	I4 16	10.50	18.226	30.1	0.0	2.9	3.4	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1051	I4 16	10.40	18.226	30.1	0.0	2.9	3.4	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1052	I4 16	10.30	18.226	30.1	0.0	2.9	3.4	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1053	I4 16	10.20	18.226	30.1	0.0	2.9	3.4	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1054	I4 16	10.10	18.226	30.1	0.0	2.9	3.4	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1055	I4 16	10.00	18.226	30.1	0.0	2.9	3.4	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1056	I4 16	9.90	18.226	30.1	0.0	2.9	3.4	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1057	I4 16	9.80	18.226	30.1	0.0	2.9	3.4	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1058	I4 16	9.70	18.226	30.1	0.0	2.9	3.3	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1059	I4 16	9.60	18.226	30.1	0.0	2.9	3.3	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1060	I4 16	9.50	18.226	30.1	0.0	2.9	3.3	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1061	I4 16	9.40	18.226	30.1	0.0	2.9	3.3	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1062	I4 16	9.30	18.226	30.1	0.0	2.9	3.3	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1063	I4 16	9.20	18.226	30.1	0.0	2.9	3.3	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1064	I4 16	9.10	18.226	30.1	0.0	2.9	3.3	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1065	I4 16	9.00	18.226	30.1	0.0	2.9	3.3	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1066	I4 16	8.90	18.226	30.1	0.0	2.9	3.3	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1067	I4 16	8.80	18.226	30.1	0.0	2.9	3.2	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1068	I4 16	8.70	18.226	30.1	0.0	2.9	3.2	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1069	I4 16	8.60	18.226	30.1	0.0	2.9	3.2	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32

1070	I4	16	8.50	18.226	30.1	0.0	2.9	3.2	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1071	I4	16	8.40	18.226	30.1	0.0	2.9	3.2	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1072	I4	16	8.30	18.226	30.1	0.0	2.9	3.2	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1073	I4	16	8.20	18.226	30.1	0.0	2.9	3.2	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1074	I4	16	8.10	18.226	30.1	0.0	2.9	3.2	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1075	I4	16	8.00	18.226	30.1	0.0	2.9	3.2	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1076	I4	16	7.90	18.226	30.1	0.0	2.9	3.1	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1077	I4	16	7.80	18.226	30.1	0.0	2.9	3.1	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1078	I4	16	7.70	18.226	30.1	0.0	2.9	3.1	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1079	I4	16	7.60	18.226	30.1	0.0	2.9	3.1	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1080	I4	16	7.50	18.226	30.1	0.0	2.9	3.1	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1081	I4	16	7.40	18.226	30.1	0.0	2.9	3.1	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1082	I4	16	7.30	18.226	30.1	0.0	2.9	3.1	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1083	I4	16	7.20	18.226	30.1	0.0	2.9	3.1	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1084	I4	16	7.10	18.226	30.1	0.0	2.9	3.1	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1085	I4	16	7.00	18.226	30.1	0.0	2.9	3.0	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1086	I4	16	6.90	18.226	30.1	0.0	2.9	3.0	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1087	I4	16	6.80	18.226	30.1	0.0	2.9	3.0	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1088	I4	16	6.70	18.226	30.1	0.0	2.9	3.0	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1089	I4	16	6.60	18.226	30.1	0.0	2.9	3.0	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1090	I4	16	6.50	18.226	30.1	0.0	2.9	3.0	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1091	I4	16	6.40	18.226	30.1	0.0	2.9	3.0	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1092	I4	16	6.30	18.226	30.1	0.0	2.9	3.0	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1093	I4	16	6.20	18.226	30.1	0.0	2.9	3.0	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1094	I4	16	6.10	18.226	30.1	0.0	2.9	2.9	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1095	I4	16	6.00	18.226	30.1	0.0	2.9	2.9	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1096	I4	16	5.90	18.226	30.1	0.0	2.9	2.9	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1097	I4	16	5.80	18.226	30.1	0.0	2.9	2.9	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1098	I4	16	5.70	18.226	30.1	0.0	2.9	2.9	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1099	I4	16	5.60	18.226	30.1	0.0	2.9	2.9	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32

EXPANDED CAPSULE SUMMARY FOR Bayou Cholpe #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 mg/L	ADVEC m≤/s	MEAN m	DO CHLA m	REAER m/s	BOD1 DISP m/s	BOD1 DEPTH m	BOD2 WIDTH mg/L	BOD2 VELO 1/da	NH3 VELO 1/da	SAT 1/da	RATE DECA 1/da	SETT DECA 1/da	SETT DECA 1/da	SOD g/m≤/d
1100	I4 16	5.50	18.226	30.1	0.0	2.9	2.9	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1101	I4 16	5.40	18.226	30.1	0.0	2.9	2.9	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1102	I4 16	5.30	18.226	30.1	0.0	2.9	2.9	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1103	I4 16	5.20	18.226	30.1	0.0	2.9	2.9	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1104	I4 16	5.10	18.226	30.1	0.0	2.9	2.8	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1105	I4 16	5.00	18.226	30.1	0.0	2.9	2.8	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1106	I4 16	4.90	18.226	30.1	0.0	2.9	2.8	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1107	I4 16	4.80	18.226	30.1	0.0	2.9	2.8	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1108	I4 16	4.70	18.226	30.1	0.0	2.9	2.8	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1109	I4 16	4.60	18.226	30.1	0.0	3.0	2.8	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1110	I4 16	4.50	18.226	30.1	0.0	3.0	2.8	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1111	I4 16	4.40	18.226	30.1	0.0	3.0	2.8	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1112	I4 16	4.30	18.226	30.1	0.0	3.0	2.8	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1113	I4 16	4.20	18.226	30.1	0.0	3.0	2.8	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1114	I4 16	4.10	18.226	30.1	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1115	I4 16	4.00	18.226	30.1	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1116	I4 16	3.90	18.226	30.1	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1117	I4 16	3.80	18.226	30.1	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1118	I4 16	3.70	18.226	30.1	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1119	I4 16	3.60	18.226	30.1	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1120	I4 16	3.50	18.226	30.1	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1121	I4 16	3.40	18.226	30.1	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1122	I4 16	3.30	18.226	30.1	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1123	I4 16	3.20	18.226	30.1	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1124	I4 16	3.10	18.226	30.1	0.0	3.0	2.7	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1125	I4 16	3.00	18.226	30.1	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1126	I4 16	2.90	18.226	30.1	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1127	I4 16	2.80	18.226	30.1	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1128	I4 16	2.70	18.226	30.1	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1129	I4 16	2.60	18.226	30.1	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1130	I4 16	2.50	18.226	30.1	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1131	I4 16	2.40	18.226	30.1	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1132	I4 16	2.30	18.226	30.1	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1133	I4 16	2.20	18.226	30.1	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1134	I4 16	2.10	18.226	30.1	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1135	I4 16	2.00	18.226	30.1	0.0	3.0	2.6	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1136	I4 16	1.90	18.226	30.1	0.0	3.0	2.5	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1137	I4 16	1.80	18.226	30.1	0.0	3.0	2.5	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1138	I4 16	1.70	18.226	30.1	0.0	3.0	2.5	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1139	I4 16	1.60	18.226	30.1	0.0	3.0	2.5	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1140	I4 16	1.50	18.226	30.1	0.0	3.0	2.5	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1141	I4 16	1.40	18.226	30.1	0.0	3.0	2.5	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1142	I4 16	1.30	18.226	30.1	0.0	3.0	2.5	0.0	1.6	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.35	1.32
1143	I4 16	1.20	18.226	30.1	0.0	3.0	2.5	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32

1144	I4	16	1.10	18.226	30.1	0.0	3.0	2.5	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32
1145	I4	16	1.00	18.226	30.1	0.0	3.0	2.5	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32
1146	I4	16	0.90	18.226	30.1	0.0	3.1	2.5	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32
1147	I4	16	0.80	18.226	30.1	0.0	3.1	2.4	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32
1148	I4	16	0.70	18.226	30.1	0.0	3.1	2.4	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32
1149	I4	16	0.60	18.226	30.1	0.0	3.1	2.4	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32
1150	I4	16	0.50	18.226	30.1	0.0	3.1	2.4	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32
1151	I4	16	0.40	18.226	30.1	0.0	3.1	2.4	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32
1152	I4	16	0.30	18.226	30.1	0.0	3.1	2.4	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32
1153	I4	16	0.20	18.226	30.1	0.0	3.1	2.4	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32
1154	I4	16	0.10	18.226	30.1	0.0	3.1	2.4	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32
1155	I4	16	0.00	18.226	30.1	0.0	3.1	2.4	0.0	1.7	0.1	0.0	0.0	2.50	70.0	0.104	0.104	7.5	0.387	0.32	0.00	0.00	0.00	0.36	1.32

EXPANDED CAPSULE SUMMARY FOR Bayou Poydras #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m≤/s	CHLA m	DISP m	ADVEC MEAN DEPTH m	ADVEC MEAN WIDTH m	ADVEC MEAN VELO m/s	ADVEC 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/m≤/d
126	P1 3	10.20	0.066	27.0	0.0	1.1	30.6	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.08	0.00	0.00	0.00	0.03	0.86
127	P1 3	10.10	0.066	27.0	0.0	1.8	30.5	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.12	0.00	0.00	0.00	0.15	1.37
128	P1 3	10.00	0.066	27.0	0.0	2.3	30.5	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.25	1.55
129	P1 3	9.90	0.066	27.0	0.0	2.8	30.4	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.27	1.55
130	P1 3	9.80	0.066	27.0	0.0	3.3	30.3	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.28	1.55
131	P1 3	9.70	0.066	27.0	0.0	3.6	30.2	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.29	1.55
132	P1 3	9.60	0.066	27.0	0.0	4.0	30.1	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.30	1.55
133	P1 3	9.50	0.066	27.0	0.0	4.3	30.0	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.31	1.55
134	P1 3	9.40	0.066	27.0	0.0	4.5	29.9	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.31	1.55
135	P1 3	9.30	0.066	27.0	0.0	4.8	29.8	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.31	1.55
136	P1 3	9.20	0.066	27.0	0.0	5.0	29.8	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.32	1.55
137	P1 3	9.10	0.066	27.0	0.0	5.1	29.7	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.32	1.55
138	P1 3	9.00	0.066	27.0	0.0	5.3	29.6	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.32	1.55
139	P1 3	8.90	0.066	27.0	0.0	5.4	29.5	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.32	1.55
140	P1 3	8.80	0.066	27.0	0.0	5.6	29.4	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.33	1.55
141	P1 3	8.70	0.066	27.0	0.0	5.7	29.3	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.33	1.55
142	P1 3	8.60	0.066	27.0	0.0	5.8	29.2	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.33	1.55
143	P1 3	8.50	0.066	27.0	0.0	5.9	29.2	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.33	1.55
144	P1 3	8.40	0.066	27.0	0.0	5.9	29.1	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.33	1.55
145	P1 3	8.30	0.066	27.0	0.0	6.0	29.0	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.33	1.55
146	P1 3	8.20	0.066	27.0	0.0	6.1	28.9	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.33	1.55
147	P1 3	8.10	0.066	27.0	0.0	6.1	28.8	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.402	0.14	0.00	0.00	0.00	0.33	1.55
WASTELOAD # 148 (LAG540069) ENTERS HERE																								
148	P1 3	8.00	0.066	27.0	0.0	6.2	28.8	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.408	0.14	0.00	0.00	0.00	0.33	1.55
149	P1 3	7.90	0.066	27.0	0.0	6.2	28.7	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.408	0.14	0.00	0.00	0.00	0.33	1.55
150	P1 3	7.80	0.066	27.0	0.0	6.2	28.6	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.408	0.14	0.00	0.00	0.00	0.33	1.55
WASTELOAD # 151 (LAG531697) ENTERS HERE																								
151	P1 3	7.70	0.066	27.0	0.0	6.3	28.5	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.410	0.14	0.00	0.00	0.00	0.33	1.55
152	P1 3	7.60	0.066	27.0	0.0	6.3	28.4	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.410	0.14	0.00	0.00	0.00	0.33	1.55
153	P1 3	7.50	0.066	27.0	0.0	6.3	28.4	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.410	0.14	0.00	0.00	0.00	0.33	1.55
154	P1 3	7.40	0.066	27.0	0.0	6.3	28.3	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.410	0.14	0.00	0.00	0.00	0.33	1.55
155	P1 3	7.30	0.066	27.0	0.0	6.4	28.2	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.410	0.14	0.00	0.00	0.00	0.33	1.55
156	P1 3	7.20	0.066	27.0	0.0	6.4	28.1	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.410	0.14	0.00	0.00	0.00	0.34	1.55
157	P1 3	7.10	0.066	27.0	0.0	6.4	28.0	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.410	0.14	0.00	0.00	0.00	0.34	1.55
WASTELOAD # 158 (LAG540858) ENTERS HERE																								
158	P1 3	7.00	0.066	27.0	0.0	6.4	28.0	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.423	0.14	0.00	0.00	0.00	0.34	1.55
WASTELOAD # 159 (LAG531903) ENTERS HERE WITHOUT ANY FLOW																								
159	P1 3	6.90	0.066	27.0	0.0	6.4	27.9	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.423	0.14	0.00	0.00	0.00	0.34	1.55
160	P1 3	6.80	0.066	27.0	0.0	6.4	27.8	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.423	0.14	0.00	0.00	0.00	0.34	1.55
161	P1 3	6.70	0.066	27.0	0.0	6.4	27.7	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.423	0.14	0.00	0.00	0.00	0.34	1.55
162	P1 3	6.60	0.066	27.0	0.0	6.5	27.6	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.423	0.14	0.00	0.00	0.00	0.34	1.55
163	P1 3	6.50	0.066	27.0	0.0	6.5	27.6	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.423	0.14	0.00	0.00	0.00	0.34	1.55
WASTELOAD # 164 (LAG531990) ENTERS HERE																								
164	P1 3	6.40	0.066	27.0	0.0	6.5	27.5	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55

165	P1	3	6.30	0.066	27.0	0.0	6.5	27.4	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
166	P1	3	6.20	0.066	27.0	0.0	6.5	27.4	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
167	P1	3	6.10	0.066	27.0	0.0	6.5	27.3	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
168	P1	3	6.00	0.066	27.0	0.0	6.5	27.2	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
169	P1	3	5.90	0.066	27.0	0.0	6.5	27.1	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
170	P1	3	5.80	0.066	27.0	0.0	6.5	27.0	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
171	P1	3	5.70	0.066	27.0	0.0	6.5	27.0	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
172	P1	3	5.60	0.066	27.0	0.0	6.5	26.9	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
173	P1	3	5.50	0.066	27.0	0.0	6.5	26.8	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
174	P1	3	5.40	0.066	27.0	0.0	6.5	26.7	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
175	P1	3	5.30	0.066	27.0	0.0	6.5	26.7	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
176	P1	3	5.20	0.066	27.0	0.0	6.5	26.6	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
177	P1	3	5.10	0.066	27.0	0.0	6.5	26.5	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
178	P1	3	5.00	0.066	27.0	0.0	6.5	26.4	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
179	P1	3	4.90	0.066	27.0	0.0	6.5	26.3	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
180	P1	3	4.80	0.066	27.0	0.0	6.5	26.3	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
181	P1	3	4.70	0.066	27.0	0.0	6.5	26.2	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
182	P1	3	4.60	0.066	27.0	0.0	6.5	26.1	0.0	1.5	0.2	0.0	0.0	0.30	4.0	0.055	0.055	8.0	6.427	0.14	0.00	0.00	0.00	0.34	1.55
183	P2	4	4.50	0.071	27.0	0.0	6.1	26.5	0.0	1.6	0.2	0.0	0.0	0.60	8.0	0.015	0.015	8.0	1.332	0.14	0.00	0.00	0.00	0.33	1.40
184	P2	4	4.40	0.075	27.1	0.0	5.7	26.9	0.0	1.6	0.2	0.0	0.0	0.60	8.0	0.016	0.016	8.0	1.333	0.14	0.00	0.00	0.00	0.33	1.40
185	P2	4	4.30	0.079	27.1	0.0	5.4	27.2	0.0	1.7	0.1	0.0	0.0	0.60	8.0	0.016	0.016	7.9	1.334	0.14	0.00	0.00	0.00	0.33	1.41
WASTELOAD # 186 (LAG540898) ENTERS HERE																									
186	P2	4	4.20	0.085	27.2	0.0	5.2	27.5	0.0	1.7	0.2	0.0	0.0	0.60	8.0	0.018	0.018	7.9	1.335	0.14	0.00	0.00	0.00	0.33	1.41
WASTELOAD # 187 (LAG540785) ENTERS HERE																									
187	P2	4	4.10	0.089	27.2	0.0	5.0	27.8	0.0	1.8	0.2	0.0	0.0	0.60	8.0	0.019	0.019	7.9	1.336	0.14	0.00	0.00	0.00	0.32	1.42
188	P2	4	4.00	0.093	27.3	0.0	4.8	28.0	0.0	1.8	0.2	0.0	0.0	0.60	8.0	0.019	0.019	7.9	1.353	0.14	0.00	0.00	0.00	0.32	1.42
189	P2	4	3.90	0.097	27.3	0.0	4.6	28.2	0.0	1.9	0.2	0.0	0.0	0.60	8.0	0.020	0.020	7.9	1.383	0.14	0.00	0.00	0.00	0.32	1.43
190	P2	4	3.80	0.102	27.3	0.0	4.5	28.4	0.0	1.9	0.1	0.0	0.0	0.60	8.0	0.021	0.021	7.9	1.413	0.14	0.00	0.00	0.00	0.32	1.43
191	P2	4	3.70	0.106	27.4	0.0	4.4	28.5	0.0	1.9	0.1	0.0	0.0	0.60	8.0	0.022	0.022	7.9	1.443	0.14	0.00	0.00	0.00	0.32	1.43
192	P2	4	3.60	0.110	27.4	0.0	4.3	28.7	0.0	2.0	0.1	0.0	0.0	0.60	8.0	0.023	0.023	7.9	1.471	0.14	0.00	0.00	0.00	0.32	1.44

EXPANDED CAPSULE SUMMARY FOR Bayou Poydras #1

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	NH3 SETT	DECA SETT	DECA	SOD
	km	m≥/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	m≤/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m≤/d
193	P2 4	3.50	0.114	27.5	0.0	4.3	28.8	0.0	2.0	0.1	0.0	0.0	0.60	8.0	0.024	0.024	7.9	1.500	0.14	0.00	0.00	0.00	0.32	1.44
194	P2 4	3.40	0.118	27.5	0.0	4.2	28.9	0.0	2.0	0.1	0.0	0.0	0.60	8.0	0.025	0.025	7.9	1.528	0.14	0.00	0.00	0.00	0.32	1.45
195	P2 4	3.30	0.122	27.6	0.0	4.2	29.1	0.0	2.0	0.1	0.0	0.0	0.60	8.0	0.025	0.025	7.9	1.555	0.14	0.00	0.00	0.00	0.32	1.45
196	P2 4	3.20	0.126	27.6	0.0	4.1	29.2	0.0	2.1	0.1	0.0	0.0	0.60	8.0	0.026	0.026	7.9	1.583	0.14	0.00	0.00	0.00	0.32	1.45
197	P2 4	3.10	0.130	27.7	0.0	4.1	29.3	0.0	2.1	0.1	0.0	0.0	0.60	8.0	0.027	0.027	7.9	1.609	0.14	0.00	0.00	0.00	0.32	1.46
198	P2 4	3.00	0.134	27.7	0.0	4.1	29.4	0.0	2.1	0.1	0.0	0.0	0.60	8.0	0.028	0.028	7.9	1.636	0.14	0.00	0.00	0.00	0.32	1.46
199	P2 4	2.90	0.139	27.7	0.0	4.0	29.5	0.0	2.1	0.1	0.0	0.0	0.60	8.0	0.029	0.029	7.9	1.662	0.14	0.00	0.00	0.00	0.32	1.47
200	P2 4	2.80	0.143	27.8	0.0	4.0	29.5	0.0	2.1	0.1	0.0	0.0	0.60	8.0	0.030	0.030	7.9	1.688	0.14	0.00	0.00	0.00	0.32	1.47
201	P2 4	2.70	0.147	27.8	0.0	4.0	29.6	0.0	2.2	0.1	0.0	0.0	0.60	8.0	0.031	0.031	7.9	1.713	0.14	0.00	0.00	0.00	0.32	1.47
202	P2 4	2.60	0.151	27.9	0.0	4.0	29.7	0.0	2.2	0.1	0.0	0.0	0.60	8.0	0.031	0.031	7.8	1.738	0.14	0.00	0.00	0.00	0.32	1.48
203	P2 4	2.50	0.155	27.9	0.0	4.0	29.8	0.0	2.2	0.1	0.0	0.0	0.60	8.0	0.032	0.032	7.8	1.763	0.14	0.00	0.00	0.00	0.32	1.48
204	P2 4	2.40	0.159	28.0	0.0	4.0	29.8	0.0	2.2	0.1	0.0	0.0	0.60	8.0	0.033	0.033	7.8	1.787	0.14	0.00	0.00	0.00	0.33	1.49
205	P2 4	2.30	0.163	28.0	0.0	4.0	29.9	0.0	2.2	0.1	0.0	0.0	0.60	8.0	0.034	0.034	7.8	1.812	0.14	0.00	0.00	0.00	0.33	1.49
206	P2 4	2.20	0.167	28.0	0.0	4.0	29.9	0.0	2.2	0.1	0.0	0.0	0.60	8.0	0.035	0.035	7.8	1.836	0.14	0.00	0.00	0.00	0.33	1.49
207	P2 4	2.10	0.171	28.1	0.0	4.0	30.0	0.0	2.2	0.1	0.0	0.0	0.60	8.0	0.036	0.036	7.8	1.860	0.14	0.00	0.00	0.00	0.33	1.50
208	P2 4	2.00	0.175	28.1	0.0	4.0	30.0	0.0	2.3	0.1	0.0	0.0	0.60	8.0	0.037	0.037	7.8	1.883	0.15	0.00	0.00	0.00	0.33	1.50
209	P2 4	1.90	0.180	28.2	0.0	4.0	30.1	0.0	2.3	0.1	0.0	0.0	0.60	8.0	0.037	0.037	7.8	1.907	0.15	0.00	0.00	0.00	0.33	1.51
210	P2 4	1.80	0.184	28.2	0.0	4.0	30.1	0.0	2.3	0.1	0.0	0.0	0.60	8.0	0.038	0.038	7.8	1.930	0.15	0.00	0.00	0.00	0.33	1.51
211	P2 4	1.70	0.188	28.3	0.0	4.0	30.2	0.0	2.3	0.1	0.0	0.0	0.60	8.0	0.039	0.039	7.8	1.953	0.15	0.00	0.00	0.00	0.33	1.51
212	P2 4	1.60	0.192	28.3	0.0	4.0	30.2	0.0	2.3	0.1	0.0	0.0	0.60	8.0	0.040	0.040	7.8	1.975	0.15	0.00	0.00	0.00	0.34	1.52
213	P2 4	1.50	0.196	28.3	0.0	4.1	30.2	0.0	2.3	0.1	0.0	0.0	0.60	8.0	0.041	0.041	7.8	1.998	0.15	0.00	0.00	0.00	0.34	1.52
214	P2 4	1.40	0.200	28.4	0.0	4.1	30.3	0.0	2.3	0.1	0.0	0.0	0.60	8.0	0.042	0.042	7.8	2.020	0.15	0.00	0.00	0.00	0.34	1.53
215	P2 4	1.30	0.204	28.4	0.0	4.1	30.3	0.0	2.3	0.1	0.0	0.0	0.60	8.0	0.043	0.043	7.8	2.043	0.15	0.00	0.00	0.00	0.34	1.53
216	P2 4	1.20	0.208	28.5	0.0	4.1	30.3	0.0	2.3	0.1	0.0	0.0	0.60	8.0	0.043	0.043	7.8	2.065	0.15	0.00	0.00	0.00	0.34	1.54
217	P2 4	1.10	0.212	28.5	0.0	4.1	30.4	0.0	2.3	0.1	0.0	0.0	0.60	8.0	0.044	0.044	7.8	2.086	0.15	0.00	0.00	0.00	0.34	1.54
218	P2 4	1.00	0.217	28.6	0.0	4.1	30.4	0.0	2.3	0.1	0.0	0.0	0.60	8.0	0.045	0.045	7.7	2.108	0.15	0.00	0.00	0.00	0.34	1.54
219	P2 4	0.90	0.221	28.6	0.0	4.1	30.4	0.0	2.3	0.1	0.0	0.0	0.60	8.0	0.046	0.046	7.7	2.130	0.15	0.00	0.00	0.00	0.35	1.55
220	P2 4	0.80	0.225	28.7	0.0	4.1	30.5	0.0	2.4	0.1	0.0	0.0	0.60	8.0	0.047	0.047	7.7	2.151	0.15	0.00	0.00	0.00	0.35	1.55
221	P2 4	0.70	0.229	28.7	0.0	4.1	30.5	0.0	2.4	0.1	0.0	0.0	0.60	8.0	0.048	0.048	7.7	2.172	0.15	0.00	0.00	0.00	0.35	1.56
222	P2 4	0.60	0.233	28.7	0.0	4.1	30.5	0.0	2.4	0.1	0.0	0.0	0.60	8.0	0.049	0.049	7.7	2.193	0.15	0.00	0.00	0.00	0.35	1.56
223	P2 4	0.50	0.237	28.8	0.0	4.2	30.5	0.0	2.4	0.1	0.0	0.0	0.60	8.0	0.049	0.049	7.7	2.214	0.15	0.00	0.00	0.00	0.35	1.56
224	P2 4	0.40	0.241	28.8	0.0	4.2	30.5	0.0	2.4	0.1	0.0	0.0	0.60	8.0	0.050	0.050	7.7	2.235	0.15	0.00	0.00	0.00	0.35	1.57
225	P2 4	0.30	0.245	28.9	0.0	4.2	30.6	0.0	2.4	0.1	0.0	0.0	0.60	8.0	0.051	0.051	7.7	2.256	0.15	0.00	0.00	0.00	0.35	1.57
226	P2 4	0.20	0.249	28.9	0.0	4.2	30.6	0.0	2.4	0.1	0.0	0.0	0.60	8.0	0.052	0.052	7.7	2.276	0.15	0.00	0.00	0.00	0.36	1.58
227	P2 4	0.10	0.253	29.0	0.0	4.2	30.6	0.0	2.4	0.1	0.0	0.0	0.60	8.0	0.053	0.053	7.7	2.296	0.15	0.00	0.00	0.00	0.36	1.58
228	P2 4	0.00	0.258	29.0	0.0	4.2	30.6	0.0	2.4	0.1	0.0	0.0	0.60	8.0	0.054	0.054	7.7	2.317	0.15	0.00	0.00	0.00	0.36	1.59

EXPANDED CAPSULE SUMMARY FOR Chamberlin Canal #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 mg/L	ADVEC m≤/s	MEAN m	DO m	REAER m/s	BOD1 m/s	BOD1 mg/L	BOD2 1/da	BOD2 1/da	BOD2 1/da	NH3 1/da	SAT 1/da	RATE g/m≤/d	DECA 1/da	SETT 1/da	DECA 1/da	SETT 1/da	DECA 1/da	SOD g/m≤/d
272	C1 6	7.40	0.001	26.4	0.0	4.7	9.9	0.0	1.3	0.1	0.0	0.0	0.10	2.0	0.003	0.003	8.1	7.899	0.17	0.00	0.00	0.00	0.30	1.94				
273	C1 6	7.30	0.001	26.5	0.0	5.2	10.3	0.0	1.4	0.1	0.0	0.0	0.10	2.0	0.003	0.003	8.0	7.910	0.17	0.00	0.00	0.00	0.31	1.95				
274	C1 6	7.20	0.001	26.5	0.0	5.3	10.7	0.0	1.4	0.1	0.0	0.0	0.10	2.0	0.003	0.003	8.0	7.938	0.18	0.00	0.00	0.00	0.31	1.96				
275	C1 6	7.10	0.001	26.6	0.0	5.3	11.0	0.0	1.5	0.1	0.0	0.0	0.10	2.0	0.003	0.003	8.0	8.228	0.18	0.00	0.00	0.00	0.31	1.97				
276	C1 6	7.00	0.001	26.7	0.0	5.4	11.2	0.0	1.5	0.1	0.0	0.0	0.10	2.0	0.004	0.004	8.0	8.511	0.18	0.00	0.00	0.00	0.32	1.98				
277	C1 6	6.90	0.001	26.8	0.0	5.4	11.4	0.0	1.6	0.1	0.0	0.0	0.10	2.0	0.004	0.004	8.0	8.786	0.18	0.00	0.00	0.00	0.32	1.99				
278	C1 6	6.80	0.001	26.9	0.0	5.5	11.6	0.0	1.6	0.1	0.0	0.0	0.10	2.0	0.004	0.004	8.0	9.054	0.18	0.00	0.00	0.00	0.32	2.00				
279	C1 6	6.70	0.001	27.0	0.0	5.5	11.7	0.0	1.7	0.1	0.0	0.0	0.10	2.0	0.004	0.004	8.0	9.316	0.18	0.00	0.00	0.00	0.33	2.01				
280	C1 6	6.60	0.001	27.0	0.0	5.6	11.9	0.0	1.7	0.0	0.0	0.0	0.10	2.0	0.005	0.005	8.0	9.572	0.18	0.00	0.00	0.00	0.33	2.02				
281	C1 6	6.50	0.001	27.1	0.0	5.6	12.0	0.0	1.7	0.0	0.0	0.0	0.10	2.0	0.005	0.005	8.0	9.822	0.18	0.00	0.00	0.00	0.33	2.04				
282	C1 6	6.40	0.001	27.2	0.0	5.6	12.1	0.0	1.7	0.0	0.0	0.0	0.10	2.0	0.005	0.005	7.9	10.068	0.18	0.00	0.00	0.00	0.33	2.05				
283	C1 6	6.30	0.001	27.3	0.0	5.7	12.1	0.0	1.8	0.0	0.0	0.0	0.10	2.0	0.005	0.005	7.9	10.310	0.18	0.00	0.00	0.00	0.34	2.06				
284	C1 6	6.20	0.001	27.4	0.0	5.7	12.2	0.0	1.8	0.0	0.0	0.0	0.10	2.0	0.005	0.005	7.9	10.547	0.18	0.00	0.00	0.00	0.34	2.07				
285	C1 6	6.10	0.001	27.4	0.0	5.7	12.2	0.0	1.8	0.0	0.0	0.0	0.10	2.0	0.006	0.006	7.9	10.780	0.18	0.00	0.00	0.00	0.34	2.08				
286	C1 6	6.00	0.001	27.5	0.0	5.7	12.3	0.0	1.8	0.0	0.0	0.0	0.10	2.0	0.006	0.006	7.9	11.009	0.18	0.00	0.00	0.00	0.34	2.09				
287	C1 6	5.90	0.001	27.6	0.0	5.8	12.3	0.0	1.8	0.0	0.0	0.0	0.10	2.0	0.006	0.006	7.9	11.235	0.18	0.00	0.00	0.00	0.35	2.10				
288	C1 6	5.80	0.001	27.7	0.0	5.8	12.4	0.0	1.9	0.0	0.0	0.0	0.10	2.0	0.006	0.006	7.9	11.458	0.19	0.00	0.00	0.00	0.35	2.11				
289	C1 6	5.70	0.001	27.8	0.0	5.8	12.4	0.0	1.9	0.0	0.0	0.0	0.10	2.0	0.007	0.007	7.9	11.569	0.19	0.00	0.00	0.00	0.35	2.12				
290	C1 6	5.60	0.001	27.9	0.0	5.8	12.4	0.0	1.9	0.0	0.0	0.0	0.10	2.0	0.007	0.007	7.8	11.585	0.19	0.00	0.00	0.00	0.35	2.13				
291	C1 6	5.50	0.001	27.9	0.0	5.8	12.5	0.0	1.9	0.0	0.0	0.0	0.10	2.0	0.007	0.007	7.8	11.602	0.19	0.00	0.00	0.00	0.36	2.14				
292	C1 6	5.40	0.001	28.0	0.0	5.7	12.5	0.0	1.9	0.0	0.0	0.0	0.10	2.0	0.007	0.007	7.8	11.619	0.19	0.00	0.00	0.00	0.36	2.15				
293	C1 6	5.30	0.002	28.1	0.0	5.7	12.5	0.0	1.9	0.0	0.0	0.0	0.10	2.0	0.008	0.008	7.8	11.636	0.19	0.00	0.00	0.00	0.36	2.17				
294	C1 6	5.20	0.002	28.2	0.0	5.7	12.5	0.0	1.9	0.0	0.0	0.0	0.10	2.0	0.008	0.008	7.8	11.653	0.19	0.00	0.00	0.00	0.36	2.18				
295	C1 6	5.10	0.002	28.3	0.0	5.7	12.5	0.0	1.9	0.0	0.0	0.0	0.10	2.0	0.008	0.008	7.8	11.670	0.19	0.00	0.00	0.00	0.36	2.19				
WASTELOAD # 296 (LA0121185) ENTERS HERE WITHOUT ANY FLOW																												
296	C1 6	5.00	0.002	28.3	0.0	5.7	12.5	0.0	2.0	0.0	0.0	0.0	0.10	2.0	0.008	0.008	7.8	11.686	0.19	0.00	0.00	0.00	0.37	2.20				
297	C1 6	4.90	0.002	28.4	0.0	5.7	12.5	0.0	2.0	0.0	0.0	0.0	0.10	2.0	0.008	0.008	7.8	11.703	0.19	0.00	0.00	0.00	0.37	2.21				
298	C1 6	4.80	0.002	28.5	0.0	5.6	12.5	0.0	2.0	0.0	0.0	0.0	0.10	2.0	0.009	0.009	7.8	11.720	0.19	0.00	0.00	0.00	0.37	2.22				
299	C1 6	4.70	0.002	28.6	0.0	5.6	12.5	0.0	2.0	0.0	0.0	0.0	0.10	2.0	0.009	0.009	7.7	11.737	0.19	0.00	0.00	0.00	0.37	2.23				
300	C1 6	4.60	0.002	28.7	0.0	5.6	12.5	0.0	2.0	0.0	0.0	0.0	0.10	2.0	0.009	0.009	7.7	11.754	0.19	0.00	0.00	0.00	0.37	2.24				
301	C1 6	4.50	0.002	28.8	0.0	5.6	12.5	0.0	2.0	0.0	0.0	0.0	0.10	2.0	0.009	0.009	7.7	11.771	0.19	0.00	0.00	0.00	0.38	2.26				
302	C1 6	4.40	0.002	28.8	0.0	5.6	12.5	0.0	2.0	0.0	0.0	0.0	0.10	2.0	0.010	0.010	7.7	11.788	0.20	0.00	0.00	0.00	0.38	2.27				
303	C1 6	4.30	0.002	28.9	0.0	5.5	12.5	0.0	2.0	0.0	0.0	0.0	0.10	2.0	0.010	0.010	7.7	11.805	0.20	0.00	0.00	0.00	0.38	2.28				
304	C1 6	4.20	0.002	29.0	0.0	5.5	12.5	0.0	2.0	0.0	0.0	0.0	0.10	2.0	0.010	0.010	7.7	11.822	0.20	0.00	0.00	0.00	0.38	2.29				
WASTELOAD # 305 (LAG540783) ENTERS HERE																												
305	C2 7	4.10	0.004	29.1	0.0	4.1	20.1	0.0	2.0	0.7	1.6	0.0	0.30	5.0	0.003	0.003	7.7	2.761	0.20	0.00	0.00	0.00	0.36	2.30				
306	C2 7	4.00	0.004	29.1	0.0	3.7	18.7	0.0	2.0	0.6	3.1	0.0	0.30	5.0	0.003	0.003	7.7	2.764	0.20	0.00	0.00	0.00	0.35	2.31				
307	C2 7	3.90	0.005	29.2	0.0	3.6	17.6	0.0	2.0	0.5	4.7	0.0	0.30	5.0	0.003	0.003	7.7	2.766	0.20	0.00	0.00	0.00	0.35	2.32				
308	C2 7	3.80	0.005	29.2	0.0	3.6	16.5	0.0	2.0	0.5	6.3	0.0	0.30	5.0	0.003	0.003	7.7	2.769	0.20	0.00	0.00	0.00	0.35	2.32				
309	C2 7	3.70	0.005	29.3	0.0	3.7	15.6	0.0	2.0	0.4	7.9	0.0	0.30	5.0	0.003	0.003	7.7	2.772	0.20	0.00	0.00	0.00	0.35	2.33				
310	C2 7	3.60	0.005	29.3	0.0	3.8	14.8	0.0	2.0	0.4	9.4	0.0	0.30	5.0	0.003	0.003	7.6	2.774	0.20	0.00	0.00	0.00	0.36	2.34				
311	C2 7	3.50	0.005	29.4	0.0	3.8	14.0	0.0	2.0	0.3	11.0	0.0	0.30	5.0	0.003	0.003	7.6	2.777	0.20	0.00	0.00	0.00	0.36	2.35				
312	C2 7	3.40	0.005	29.4	0.0	3.9	13.4	0.0	2.0	0.3	12.6	0.0	0.30	5.0	0.003	0.003	7.6	2.780	0.20	0.00	0.00	0.00	0.36	2.36				
313	C2 7	3.30	0.005	29.5	0.0	4.0	12.8	0.0	2.0	0.3	14.1	0.0	0.30	5.0	0.003	0.003	7.6	2.782	0.20	0.00	0.00	0.00	0.37	2.36				

314	C2	7	3.20	0.005	29.5	0.0	4.1	12.3	0.0	2.0	0.2	15.7	0.0	0.30	5.0	0.004	0.004	7.6	2.785	0.20	0.00	0.00	0.00	0.37	2.37
315	C2	7	3.10	0.005	29.6	0.0	4.2	11.8	0.0	2.0	0.2	17.3	0.0	0.30	5.0	0.004	0.004	7.6	2.787	0.20	0.00	0.00	0.00	0.38	2.38
316	C2	7	3.00	0.006	29.7	0.0	4.3	11.4	0.0	2.0	0.2	18.9	0.0	0.30	5.0	0.004	0.004	7.6	2.790	0.20	0.00	0.00	0.00	0.38	2.39
317	C2	7	2.90	0.006	29.7	0.0	4.3	11.0	0.0	2.0	0.2	20.4	0.0	0.30	5.0	0.004	0.004	7.6	2.793	0.20	0.00	0.00	0.00	0.38	2.40
318	C2	7	2.80	0.006	29.8	0.0	4.4	10.6	0.0	2.0	0.2	22.0	0.0	0.30	5.0	0.004	0.004	7.6	2.795	0.20	0.00	0.00	0.00	0.39	2.40
319	C2	7	2.70	0.006	29.8	0.0	4.4	10.3	0.0	2.0	0.1	23.6	0.0	0.30	5.0	0.004	0.004	7.6	2.798	0.20	0.00	0.00	0.00	0.39	2.41
320	C2	7	2.60	0.006	29.9	0.0	4.5	10.0	0.0	2.0	0.1	25.1	0.0	0.30	5.0	0.004	0.004	7.6	2.801	0.20	0.00	0.00	0.00	0.39	2.42
321	C2	7	2.50	0.006	29.9	0.0	4.6	9.7	0.0	2.0	0.1	26.7	0.0	0.30	5.0	0.004	0.004	7.6	2.803	0.21	0.00	0.00	0.00	0.39	2.43
322	C2	7	2.40	0.006	30.0	0.0	4.6	9.5	0.0	2.0	0.1	28.3	0.0	0.30	5.0	0.004	0.004	7.6	2.806	0.21	0.00	0.00	0.00	0.40	2.44
323	C2	7	2.30	0.006	30.0	0.0	4.7	9.2	0.0	2.0	0.1	29.9	0.0	0.30	5.0	0.004	0.004	7.6	2.809	0.21	0.00	0.00	0.00	0.40	2.45
324	C2	7	2.20	0.007	30.1	0.0	4.7	9.0	0.0	2.0	0.1	31.4	0.0	0.30	5.0	0.004	0.004	7.5	2.811	0.21	0.00	0.00	0.00	0.40	2.45
325	C2	7	2.10	0.007	30.1	0.0	4.8	8.8	0.0	2.0	0.1	33.0	0.0	0.30	5.0	0.004	0.004	7.5	2.814	0.21	0.00	0.00	0.00	0.41	2.46
326	C2	7	2.00	0.007	30.2	0.0	4.8	8.7	0.0	2.0	0.1	34.6	0.0	0.30	5.0	0.005	0.005	7.5	2.817	0.21	0.00	0.00	0.00	0.41	2.47
327	C2	7	1.90	0.007	30.3	0.0	4.9	8.5	0.0	2.0	0.1	36.1	0.0	0.30	5.0	0.005	0.005	7.5	2.819	0.21	0.00	0.00	0.00	0.41	2.48
328	C2	7	1.80	0.007	30.3	0.0	4.9	8.3	0.0	2.0	0.1	37.7	0.0	0.30	5.0	0.005	0.005	7.5	2.822	0.21	0.00	0.00	0.00	0.41	2.49
329	C2	7	1.70	0.007	30.4	0.0	4.9	8.2	0.0	2.0	0.1	39.3	0.0	0.30	5.0	0.005	0.005	7.5	2.825	0.21	0.00	0.00	0.00	0.42	2.50
330	C2	7	1.60	0.007	30.4	0.0	5.0	8.1	0.0	2.0	0.1	40.9	0.0	0.30	5.0	0.005	0.005	7.5	2.827	0.21	0.00	0.00	0.00	0.42	2.51
331	C2	7	1.50	0.007	30.5	0.0	5.0	8.0	0.0	2.0	0.1	42.4	0.0	0.30	5.0	0.005	0.005	7.5	2.830	0.21	0.00	0.00	0.00	0.42	2.51
332	C2	7	1.40	0.007	30.5	0.0	5.1	7.8	0.0	2.0	0.1	44.0	0.0	0.30	5.0	0.005	0.005	7.5	2.833	0.21	0.00	0.00	0.00	0.42	2.52
333	C2	7	1.30	0.008	30.6	0.0	5.1	7.7	0.0	2.0	0.1	45.6	0.0	0.30	5.0	0.005	0.005	7.5	2.835	0.21	0.00	0.00	0.00	0.43	2.53
334	C2	7	1.20	0.008	30.6	0.0	5.1	7.6	0.0	2.0	0.1	47.1	0.0	0.30	5.0	0.005	0.005	7.5	2.838	0.21	0.00	0.00	0.00	0.43	2.54
335	C2	7	1.10	0.008	30.7	0.0	5.2	7.5	0.0	2.0	0.1	48.7	0.0	0.30	5.0	0.005	0.005	7.5	2.841	0.21	0.00	0.00	0.00	0.43	2.55
336	C2	7	1.00	0.008	30.8	0.0	5.2	7.5	0.0	2.0	0.1	50.3	0.0	0.30	5.0	0.005	0.005	7.5	2.843	0.21	0.00	0.00	0.00	0.44	2.56
337	C2	7	0.90	0.008	30.8	0.0	5.3	7.4	0.0	2.0	0.1	51.9	0.0	0.30	5.0	0.005	0.005	7.5	2.846	0.21	0.00	0.00	0.00	0.44	2.57
338	C2	7	0.80	0.008	30.9	0.0	5.3	7.3	0.0	2.0	0.1	53.4	0.0	0.30	5.0	0.005	0.005	7.4	2.849	0.21	0.00	0.00	0.00	0.44	2.58
339	C2	7	0.70	0.008	30.9	0.0	5.3	7.2	0.0	2.0	0.1	55.0	0.0	0.30	5.0	0.006	0.006	7.4	2.851	0.21	0.00	0.00	0.00	0.44	2.59
340	C2	7	0.60	0.008	31.0	0.0	5.4	7.2	0.0	2.0	0.1	56.6	0.0	0.30	5.0	0.006	0.006	7.4	2.854	0.22	0.00	0.00	0.00	0.45	2.59
341	C2	7	0.50	0.009	31.0	0.0	5.4	7.1	0.0	2.0	0.1	58.1	0.0	0.30	5.0	0.006	0.006	7.4	2.857	0.22	0.00	0.00	0.00	0.45	2.60
342	C2	7	0.40	0.009	31.1	0.0	5.4	7.0	0.0	2.0	0.1	59.7	0.0	0.30	5.0	0.006	0.006	7.4	2.859	0.22	0.00	0.00	0.00	0.45	2.61
343	C2	7	0.30	0.009	31.1	0.0	5.5	7.0	0.0	2.0	0.1	61.3	0.0	0.30	5.0	0.006	0.006	7.4	2.862	0.22	0.00	0.00	0.00	0.45	2.62

EXPANDED CAPSULE SUMMARY FOR Chamberlin Canal #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 mg/L	ADVEC m≤/s	MEAN m	DO m	REAER m/s	BOD1 m/s	BOD1 mg/L	BOD2 1/da	BOD2 1/da	NH3 1/da	CHLA 1/da	DISP 1/da	DEPTH 1/da	WIDTH 1/da	VELO 1/da	VELO 1/da	SAT 1/da	RATE 1/da	DECA g/m≤/d	SETT	DECA	SETT	DECA	SOD
344	C2 7	0.20	0.009	31.2	0.0	5.5	6.9	0.0	2.0	0.1	62.9	0.0	0.30	5.0	0.006	0.006	7.4	2.865	0.22	0.00	0.00	0.00	0.46	2.63									
345	C2 7	0.10	0.009	31.2	0.0	5.6	6.9	0.0	2.0	0.1	64.4	0.0	0.30	5.0	0.006	0.006	7.4	2.867	0.22	0.00	0.00	0.00	0.46	2.64									
346	C2 7	0.00	0.009	31.3	0.0	5.6	6.8	0.0	2.0	0.1	66.0	0.0	0.30	5.0	0.006	0.006	7.4	2.870	0.22	0.00	0.00	0.00	0.46	2.65									

EXPANDED CAPSULE SUMMARY FOR Intracoastal Waterwa

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m≤/s	ADVEC CHLA m	MEAN DISP m	DO DEPTH m/s	REAER WIDTH m/s	BOD1 VELO mg/L	BOD1 VELO 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	BOD2 SAT 1/da	NH3 DECA 1/da	NH3 SETT 1/da	NH3 RATE g/m≤/d	SOD DECA	SOD SETT
420	I1 9	13.30	7.530	29.8	0.0	7.4	2.2	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
421	I1 9	13.20	7.530	29.8	0.0	7.3	2.2	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
422	I1 9	13.10	7.530	29.8	0.0	7.3	2.2	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
423	I1 9	13.00	7.530	29.8	0.0	7.3	2.2	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
424	I1 9	12.90	7.530	29.8	0.0	7.3	2.2	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
425	I1 9	12.80	7.530	29.8	0.0	7.2	2.2	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
426	I1 9	12.70	7.530	29.8	0.0	7.2	2.2	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
427	I1 9	12.60	7.530	29.8	0.0	7.2	2.2	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
WASTELOAD # 428 (PS 120109#2) ENTERS HERE																								
428	I1 9	12.50	7.531	29.8	0.0	7.2	2.2	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
429	I1 9	12.40	7.531	29.8	0.0	7.1	2.2	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
430	I1 9	12.30	7.531	29.8	0.0	7.1	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
431	I1 9	12.20	7.531	29.9	0.0	7.1	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
432	I1 9	12.10	7.531	29.9	0.0	7.1	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
433	I1 9	12.00	7.531	29.9	0.0	7.1	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
434	I1 9	11.90	7.531	29.9	0.0	7.0	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
435	I1 9	11.80	7.531	29.9	0.0	7.0	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
436	I1 9	11.70	7.531	29.9	0.0	7.0	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
437	I1 9	11.60	7.531	29.9	0.0	7.0	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
438	I1 9	11.50	7.531	29.9	0.0	6.9	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
439	I1 9	11.40	7.531	29.9	0.0	6.9	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
440	I1 9	11.30	7.531	29.9	0.0	6.9	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
441	I1 9	11.20	7.531	29.9	0.0	6.9	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
442	I1 9	11.10	7.531	29.9	0.0	6.9	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
443	I1 9	11.00	7.531	29.9	0.0	6.8	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
444	I1 9	10.90	7.531	29.9	0.0	6.8	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
445	I1 9	10.80	7.531	29.9	0.0	6.8	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.20	0.00	0.00	0.00	0.43	0.93
446	I1 9	10.70	7.531	29.9	0.0	6.8	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.21	0.00	0.00	0.00	0.43	0.93
447	I1 9	10.60	7.531	29.9	0.0	6.7	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.21	0.00	0.00	0.00	0.43	0.93
448	I1 9	10.50	7.531	29.9	0.0	6.7	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.21	0.00	0.00	0.00	0.43	0.93
449	I1 9	10.40	7.531	29.9	0.0	6.7	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.21	0.00	0.00	0.00	0.43	0.93
450	I1 9	10.30	7.531	29.9	0.0	6.7	2.1	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.21	0.00	0.00	0.00	0.43	0.93
451	I1 9	10.20	7.531	29.9	0.0	6.7	2.0	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.21	0.00	0.00	0.00	0.43	0.94
452	I1 9	10.10	7.531	29.9	0.0	6.6	2.0	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.21	0.00	0.00	0.00	0.43	0.94
453	I1 9	10.00	7.531	30.0	0.0	6.6	2.0	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.21	0.00	0.00	0.00	0.43	0.94
454	I1 9	9.90	7.531	30.0	0.0	6.6	2.0	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.21	0.00	0.00	0.00	0.43	0.94
455	I1 9	9.80	7.531	30.0	0.0	6.6	2.0	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.280	0.21	0.00	0.00	0.00	0.43	0.94
WASTELOAD # 456 (LAG560237) ENTERS HERE																								
456	I1 9	9.70	7.531	30.0	0.0	6.6	2.0	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
457	I1 9	9.60	7.531	30.0	0.0	6.6	2.0	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
458	I1 9	9.50	7.531	30.0	0.0	6.5	2.0	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
459	I1 9	9.40	7.531	30.0	0.0	6.5	2.0	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
460	I1 9	9.30	7.531	30.0	0.0	6.5	2.0	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
461	I1 9	9.20	7.531	30.0	0.0	6.5	2.0	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94

462	I1	9	9.10	7.531	30.0	0.0	6.5	2.0	0.0	1.1	0.0	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
WASTELOAD # 463 (LA0068501) ENTERS HERE																									
463	I1	9	9.00	7.545	30.0	0.0	6.4	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
464	I1	9	8.90	7.545	30.0	0.0	6.4	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
465	I1	9	8.80	7.545	30.0	0.0	6.4	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
466	I1	9	8.70	7.545	30.0	0.0	6.4	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
467	I1	9	8.60	7.545	30.0	0.0	6.4	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
468	I1	9	8.50	7.545	30.0	0.0	6.4	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
469	I1	9	8.40	7.545	30.0	0.0	6.3	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
470	I1	9	8.30	7.545	30.0	0.0	6.3	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
471	I1	9	8.20	7.545	30.0	0.0	6.3	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
472	I1	9	8.10	7.545	30.0	0.0	6.3	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
473	I1	9	8.00	7.545	30.0	0.0	6.3	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
474	I1	9	7.90	7.545	30.0	0.0	6.3	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
475	I1	9	7.80	7.545	30.1	0.0	6.2	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
476	I1	9	7.70	7.545	30.1	0.0	6.2	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
477	I1	9	7.60	7.545	30.1	0.0	6.2	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
478	I1	9	7.50	7.545	30.1	0.0	6.2	2.0	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.6	0.281	0.21	0.00	0.00	0.00	0.43	0.94
479	I1	9	7.40	7.545	30.1	0.0	6.2	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.94
480	I1	9	7.30	7.545	30.1	0.0	6.2	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.94
481	I1	9	7.20	7.545	30.1	0.0	6.2	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.94
482	I1	9	7.10	7.545	30.1	0.0	6.1	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.94
483	I1	9	7.00	7.545	30.1	0.0	6.1	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.94
484	I1	9	6.90	7.545	30.1	0.0	6.1	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.94
485	I1	9	6.80	7.545	30.1	0.0	6.1	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.94
486	I1	9	6.70	7.545	30.1	0.0	6.1	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.94
487	I1	9	6.60	7.545	30.1	0.0	6.1	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.94
488	I1	9	6.50	7.545	30.1	0.0	6.1	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
489	I1	9	6.40	7.545	30.1	0.0	6.0	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
490	I1	9	6.30	7.545	30.1	0.0	6.0	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95

EXPANDED CAPSULE SUMMARY FOR Intracoastal Waterwa

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC	DISP	MEAN DEPTH	WIDTH	VELO	VELO	SAT	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
	km	m≥/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	m≤/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m≤/d
491	I1 9	6.20	7.545	30.1	0.0	6.0	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
492	I1 9	6.10	7.545	30.1	0.0	6.0	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
493	I1 9	6.00	7.545	30.1	0.0	6.0	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
494	I1 9	5.90	7.545	30.1	0.0	6.0	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
495	I1 9	5.80	7.545	30.1	0.0	6.0	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
496	I1 9	5.70	7.545	30.1	0.0	5.9	1.9	0.0	1.1	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
497	I1 9	5.60	7.545	30.1	0.0	5.9	1.9	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
498	I1 9	5.50	7.545	30.2	0.0	5.9	1.9	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
499	I1 9	5.40	7.545	30.2	0.0	5.9	1.9	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
500	I1 9	5.30	7.545	30.2	0.0	5.9	1.9	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
501	I1 9	5.20	7.545	30.2	0.0	5.9	1.9	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.281	0.21	0.00	0.00	0.00	0.43	0.95
502	I1 9	5.10	7.545	30.2	0.0	5.9	1.9	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
503	I1 9	5.00	7.545	30.2	0.0	5.9	1.9	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
504	I1 9	4.90	7.545	30.2	0.0	5.8	1.9	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
505	I1 9	4.80	7.545	30.2	0.0	5.8	1.9	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
506	I1 9	4.70	7.545	30.2	0.0	5.8	1.9	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
507	I1 9	4.60	7.545	30.2	0.0	5.8	1.9	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
508	I1 9	4.50	7.545	30.2	0.0	5.8	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
509	I1 9	4.40	7.545	30.2	0.0	5.8	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
510	I1 9	4.30	7.545	30.2	0.0	5.8	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
511	I1 9	4.20	7.545	30.2	0.0	5.8	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
512	I1 9	4.10	7.545	30.2	0.0	5.8	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
513	I1 9	4.00	7.545	30.2	0.0	5.7	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
514	I1 9	3.90	7.545	30.2	0.0	5.7	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
515	I1 9	3.80	7.545	30.2	0.0	5.7	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
516	I1 9	3.70	7.545	30.2	0.0	5.7	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
517	I1 9	3.60	7.545	30.2	0.0	5.7	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
518	I1 9	3.50	7.545	30.2	0.0	5.7	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
519	I1 9	3.40	7.545	30.2	0.0	5.7	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
520	I1 9	3.30	7.545	30.3	0.0	5.7	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
521	I1 9	3.20	7.545	30.3	0.0	5.7	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
522	I1 9	3.10	7.545	30.3	0.0	5.7	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
523	I1 9	3.00	7.545	30.3	0.0	5.6	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
524	I1 9	2.90	7.545	30.3	0.0	5.6	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
525	I1 9	2.80	7.545	30.3	0.0	5.6	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.95
526	I1 9	2.70	7.545	30.3	0.0	5.6	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.96
527	I1 9	2.60	7.545	30.3	0.0	5.6	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.96
528	I1 9	2.50	7.545	30.3	0.0	5.6	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.96
529	I1 9	2.40	7.545	30.3	0.0	5.6	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.96
530	I1 9	2.30	7.545	30.3	0.0	5.6	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.96
531	I1 9	2.20	7.545	30.3	0.0	5.6	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.96
532	I1 9	2.10	7.545	30.3	0.0	5.6	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.96
533	I1 9	2.00	7.545	30.3	0.0	5.6	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.96
534	I1 9	1.90	7.545	30.3	0.0	5.5	1.8	0.0	1.2	0.1	0.0	0.0	3.00	76.0	0.033	0.033	7.5	0.282	0.21	0.00	0.00	0.00	0.43	0.96

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535 I1  9   1.80  7.545 30.3  0.0  5.5  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
536 I1  9   1.70  7.545 30.3  0.0  5.5  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
537 I1  9   1.60  7.545 30.3  0.0  5.5  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
538 I1  9   1.50  7.545 30.3  0.0  5.5  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
539 I1  9   1.40  7.545 30.3  0.0  5.5  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
540 I1  9   1.30  7.545 30.3  0.0  5.5  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
541 I1  9   1.20  7.545 30.3  0.0  5.5  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
542 I1  9   1.10  7.545 30.4  0.0  5.5  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
543 I1  9   1.00  7.545 30.4  0.0  5.5  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
544 I1  9   0.90  7.545 30.4  0.0  5.5  1.7  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
545 I1  9   0.80  7.545 30.4  0.0  5.5  1.7  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
546 I1  9   0.70  7.545 30.4  0.0  5.4  1.7  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
547 I1  9   0.60  7.545 30.4  0.0  5.4  1.7  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.282 0.21 0.00 0.00 0.00 0.43  0.96
548 I1  9   0.50  7.545 30.4  0.0  5.4  1.7  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.283 0.21 0.00 0.00 0.00 0.43  0.96
549 I1  9   0.40  7.545 30.4  0.0  5.4  1.7  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.283 0.21 0.00 0.00 0.00 0.43  0.96
    WASTELOAD # 550 (PS 120109#1) ENTERS HERE
550 I1  9   0.30  7.564 30.4  0.0  5.4  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.283 0.21 0.00 0.00 0.00 0.43  0.96
551 I1  9   0.20  7.564 30.4  0.0  5.4  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.283 0.21 0.00 0.00 0.00 0.43  0.96
552 I1  9   0.10  7.564 30.4  0.0  5.4  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.283 0.21 0.00 0.00 0.00 0.43  0.96
553 I1  9   0.00  7.564 30.4  0.0  5.4  1.8  0.0  1.2  0.1  0.0   0.0  3.00  76.0  0.033  0.033   7.5  0.283 0.21 0.00 0.00 0.00 0.43  0.96
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EXPANDED CAPSULE SUMMARY FOR Bayou Plaquemine

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 mg/L	ADVEC m≤/s	MEAN m	DO m	REAER m/s	CHLA m/s	BOD1 mg/L	BOD1 1/da	BOD2 1/da	BOD2 1/da	NH3 1/da	SAT 1/da	RATE 1/da	DECA g/m≤/d	SETT DECA	SETT DECA	SOD
710	BP 11	11.80	0.770	29.1	0.0	4.4	5.2	0.0	1.6	0.0	57.5	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.37	0.89		
711	BP 11	11.70	0.770	29.1	0.0	4.6	5.5	0.0	1.6	0.0	57.0	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.37	0.89		
712	BP 11	11.60	0.770	29.1	0.0	4.8	5.7	0.0	1.6	0.0	56.5	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.37	0.89		
713	BP 11	11.50	0.770	29.1	0.0	5.1	6.0	0.0	1.6	0.0	56.1	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.38	0.89		
714	BP 11	11.40	0.770	29.1	0.0	5.3	6.3	0.0	1.6	0.0	55.6	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.38	0.89		
715	BP 11	11.30	0.770	29.1	0.0	5.5	6.5	0.0	1.6	0.0	55.1	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.39	0.89		
716	BP 11	11.20	0.770	29.1	0.0	5.6	6.8	0.0	1.6	0.0	54.6	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.39	0.89		
717	BP 11	11.10	0.770	29.1	0.0	5.8	7.0	0.0	1.6	0.0	54.1	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.39	0.89		
718	BP 11	11.00	0.770	29.1	0.0	6.0	7.3	0.0	1.6	0.0	53.6	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.39	0.89		
719	BP 11	10.90	0.770	29.1	0.0	6.1	7.6	0.0	1.6	0.0	53.1	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.40	0.89		
720	BP 11	10.80	0.770	29.1	0.0	6.3	7.8	0.0	1.6	0.0	52.6	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.40	0.89		
721	BP 11	10.70	0.770	29.1	0.0	6.4	8.1	0.0	1.6	0.0	52.2	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.40	0.89		
722	BP 11	10.60	0.770	29.1	0.0	6.5	8.3	0.0	1.6	0.0	51.7	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.40	0.89		
723	BP 11	10.50	0.770	29.1	0.0	6.7	8.5	0.0	1.6	0.0	51.2	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.40	0.89		
724	BP 11	10.40	0.770	29.1	0.0	6.8	8.8	0.0	1.6	0.0	50.7	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.40	0.89		
725	BP 11	10.30	0.770	29.1	0.0	6.9	9.0	0.0	1.6	0.0	50.2	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.40	0.89		
726	BP 11	10.20	0.770	29.1	0.0	7.0	9.3	0.0	1.6	0.0	49.7	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
727	BP 11	10.10	0.770	29.1	0.0	7.0	9.5	0.0	1.6	0.0	49.2	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
728	BP 11	10.00	0.770	29.1	0.0	7.1	9.7	0.0	1.6	0.0	48.7	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
729	BP 11	9.90	0.770	29.1	0.0	7.2	10.0	0.0	1.6	0.0	48.3	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
730	BP 11	9.80	0.770	29.1	0.0	7.3	10.2	0.0	1.6	0.0	47.8	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
731	BP 11	9.70	0.770	29.1	0.0	7.3	10.4	0.0	1.6	0.0	47.3	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
732	BP 11	9.60	0.770	29.1	0.0	7.4	10.7	0.0	1.6	0.0	46.8	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
733	BP 11	9.50	0.770	29.1	0.0	7.4	10.9	0.0	1.6	0.0	46.3	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
734	BP 11	9.40	0.770	29.1	0.0	7.5	11.1	0.0	1.6	0.0	45.8	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
735	BP 11	9.30	0.770	29.1	0.0	7.5	11.3	0.0	1.6	0.0	45.3	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
736	BP 11	9.20	0.770	29.1	0.0	7.6	11.6	0.0	1.5	0.0	44.8	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
737	BP 11	9.10	0.770	29.1	0.0	7.6	11.8	0.0	1.5	0.0	44.4	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
738	BP 11	9.00	0.770	29.1	0.0	7.6	12.0	0.0	1.5	0.0	43.9	0.0	1.10	30.0	0.023	0.023	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
WASTELOAD # 739 (LA0020648) ENTERS HERE																										
739	BP 11	8.90	0.836	29.2	0.0	7.4	13.6	0.0	1.5	0.3	43.4	0.0	1.10	30.0	0.025	0.025	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
740	BP 11	8.80	0.836	29.2	0.0	7.4	13.8	0.0	1.5	0.3	42.9	0.0	1.10	30.0	0.025	0.025	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
741	BP 11	8.70	0.836	29.2	0.0	7.4	14.0	0.0	1.5	0.3	42.4	0.0	1.10	30.0	0.025	0.025	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
742	BP 11	8.60	0.836	29.2	0.0	7.4	14.1	0.0	1.5	0.3	41.9	0.0	1.10	30.0	0.025	0.025	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
743	BP 11	8.50	0.836	29.2	0.0	7.3	14.3	0.0	1.5	0.3	41.4	0.0	1.10	30.0	0.025	0.025	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
744	BP 11	8.40	0.836	29.2	0.0	7.3	14.5	0.0	1.5	0.3	40.9	0.0	1.10	30.0	0.025	0.025	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
745	BP 11	8.30	0.836	29.2	0.0	7.3	14.7	0.0	1.5	0.3	40.5	0.0	1.10	30.0	0.025	0.025	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
746	BP 11	8.20	0.836	29.2	0.0	7.3	14.9	0.0	1.5	0.3	40.0	0.0	1.10	30.0	0.025	0.025	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
747	BP 11	8.10	0.836	29.2	0.0	7.2	15.0	0.0	1.5	0.3	39.5	0.0	1.10	30.0	0.025	0.025	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
748	BP 11	8.00	0.836	29.2	0.0	7.2	15.2	0.0	1.5	0.3	39.0	0.0	1.10	30.0	0.025	0.025	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
749	BP 11	7.90	0.836	29.2	0.0	7.2	15.4	0.0	1.5	0.3	38.5	0.0	1.10	30.0	0.025	0.025	7.7	0.754	0.17	0.00	0.00	0.00	0.41	0.89		
750	BP 11	7.80	0.836	29.2	0.0	7.2	15.6	0.0	1.5	0.3	38.0	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.41	0.89		
751	BP 11	7.70	0.836	29.2	0.0	7.1	15.7	0.0	1.5	0.3	37.5	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.41	0.89		
752	BP 11	7.60	0.836	29.2	0.0	7.1	15.9	0.0	1.5	0.3	37.0	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.41	0.89		

753	BP 11	7.50	0.836	29.2	0.0	7.1	16.1	0.0	1.5	0.3	36.6	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.41	0.89
754	BP 11	7.40	0.836	29.2	0.0	7.0	16.2	0.0	1.5	0.3	36.1	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.41	0.89
755	BP 11	7.30	0.836	29.2	0.0	7.0	16.4	0.0	1.5	0.3	35.6	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.41	0.89
756	BP 11	7.20	0.836	29.2	0.0	6.9	16.6	0.0	1.5	0.3	35.1	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.41	0.89
757	BP 11	7.10	0.836	29.2	0.0	6.9	16.7	0.0	1.5	0.3	34.6	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.41	0.89
758	BP 11	7.00	0.836	29.2	0.0	6.9	16.9	0.0	1.5	0.3	34.1	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.41	0.89
759	BP 11	6.90	0.836	29.2	0.0	6.8	17.0	0.0	1.5	0.3	33.6	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.41	0.89
760	BP 11	6.80	0.836	29.2	0.0	6.8	17.2	0.0	1.5	0.3	33.1	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.41	0.89
761	BP 11	6.70	0.836	29.2	0.0	6.7	17.4	0.0	1.5	0.3	32.7	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.41	0.89
762	BP 11	6.60	0.836	29.2	0.0	6.7	17.5	0.0	1.5	0.3	32.2	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
763	BP 11	6.50	0.836	29.2	0.0	6.6	17.7	0.0	1.5	0.3	31.7	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
764	BP 11	6.40	0.836	29.2	0.0	6.6	17.8	0.0	1.5	0.3	31.2	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
765	BP 11	6.30	0.836	29.2	0.0	6.5	18.0	0.0	1.5	0.2	30.7	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
766	BP 11	6.20	0.836	29.2	0.0	6.5	18.1	0.0	1.5	0.2	30.2	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
767	BP 11	6.10	0.836	29.2	0.0	6.4	18.3	0.0	1.5	0.2	29.7	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
768	BP 11	6.00	0.836	29.2	0.0	6.4	18.4	0.0	1.5	0.2	29.2	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
769	BP 11	5.90	0.836	29.2	0.0	6.3	18.6	0.0	1.5	0.2	28.8	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
770	BP 11	5.80	0.836	29.2	0.0	6.3	18.7	0.0	1.5	0.2	28.3	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
771	BP 11	5.70	0.836	29.2	0.0	6.2	18.9	0.0	1.5	0.2	27.8	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
772	BP 11	5.60	0.836	29.2	0.0	6.2	19.0	0.0	1.5	0.2	27.3	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
773	BP 11	5.50	0.836	29.2	0.0	6.1	19.2	0.0	1.5	0.2	26.8	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
774	BP 11	5.40	0.836	29.2	0.0	6.1	19.3	0.0	1.5	0.2	26.3	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
775	BP 11	5.30	0.836	29.2	0.0	6.0	19.4	0.0	1.5	0.2	25.8	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
776	BP 11	5.20	0.836	29.2	0.0	5.9	19.6	0.0	1.5	0.2	25.3	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
777	BP 11	5.10	0.836	29.2	0.0	5.9	19.7	0.0	1.5	0.2	24.9	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.40	0.89
778	BP 11	5.00	0.836	29.2	0.0	5.8	19.9	0.0	1.5	0.2	24.4	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.39	0.89
WASTELOAD # 779 (LAG570359) ENTERS HERE																								
779	BP 11	4.90	0.839	29.2	0.0	5.8	20.0	0.0	1.5	0.2	23.9	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.39	0.89
780	BP 11	4.80	0.839	29.2	0.0	5.7	20.1	0.0	1.5	0.2	23.4	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.39	0.89
781	BP 11	4.70	0.839	29.2	0.0	5.7	20.2	0.0	1.5	0.2	22.9	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.39	0.89

EXPANDED CAPSULE SUMMARY FOR Bayou Plaquemine

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m≤/s	CHLA	ADVEC DISP m	MEAN DEPTH m	DO WIDTH m/s	REAER VELO m/s	BOD1 mg/L	BOD1 VELO 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	BOD2 DECA 1/da	NH3 SETT 1/da	NH3 DECA 1/da	SOD g/m≤/d
	WASTELOAD # 782 (LAG540102) ENTERS HERE																						
782	BP 11	4.60	0.840	29.2	0.0	5.6	20.4	0.0	1.5	0.2	22.4	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.39	0.89
783	BP 11	4.50	0.840	29.2	0.0	5.5	20.5	0.0	1.5	0.2	21.9	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.39	0.89
784	BP 11	4.40	0.840	29.2	0.0	5.5	20.7	0.0	1.5	0.2	21.4	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.39	0.89
	WASTELOAD # 785 (LAG531065) ENTERS HERE																						
785	BP 11	4.30	0.840	29.2	0.0	5.4	20.8	0.0	1.5	0.2	21.0	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.39	0.89
786	BP 11	4.20	0.840	29.2	0.0	5.3	20.9	0.0	1.5	0.2	20.5	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.39	0.89
787	BP 11	4.10	0.840	29.2	0.0	5.3	21.0	0.0	1.5	0.2	20.0	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.39	0.89
788	BP 11	4.00	0.840	29.2	0.0	5.2	21.2	0.0	1.5	0.2	19.5	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.39	0.89
789	BP 11	3.90	0.840	29.2	0.0	5.2	21.3	0.0	1.5	0.2	19.0	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.38	0.89
790	BP 11	3.80	0.840	29.2	0.0	5.1	21.4	0.0	1.5	0.2	18.5	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.38	0.89
791	BP 11	3.70	0.840	29.2	0.0	5.0	21.6	0.0	1.5	0.2	18.0	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.38	0.89
792	BP 11	3.60	0.840	29.2	0.0	5.0	21.7	0.0	1.5	0.2	17.5	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.38	0.89
793	BP 11	3.50	0.840	29.2	0.0	4.9	21.8	0.0	1.5	0.2	17.1	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.38	0.89
794	BP 11	3.40	0.840	29.2	0.0	4.8	21.9	0.0	1.5	0.2	16.6	0.0	1.10	30.0	0.025	0.025	7.7	0.755	0.17	0.00	0.00	0.00	0.38	0.89
795	BP 11	3.30	0.840	29.2	0.0	4.8	22.0	0.0	1.5	0.2	16.1	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.38	0.89
	WASTELOAD # 796 (LAG540784) ENTERS HERE																						
796	BP 11	3.20	0.840	29.2	0.0	4.7	22.2	0.0	1.5	0.2	15.6	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.38	0.90
797	BP 11	3.10	0.840	29.2	0.0	4.6	22.3	0.0	1.5	0.2	15.1	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.38	0.90
798	BP 11	3.00	0.840	29.2	0.0	4.6	22.4	0.0	1.5	0.2	14.6	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.37	0.90
799	BP 11	2.90	0.840	29.3	0.0	4.5	22.5	0.0	1.5	0.2	14.1	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.37	0.90
800	BP 11	2.80	0.840	29.3	0.0	4.4	22.6	0.0	1.4	0.2	13.6	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.37	0.90
801	BP 11	2.70	0.840	29.3	0.0	4.4	22.7	0.0	1.4	0.2	13.2	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.37	0.90
802	BP 11	2.60	0.840	29.3	0.0	4.3	22.9	0.0	1.4	0.2	12.7	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.37	0.90
803	BP 11	2.50	0.840	29.3	0.0	4.3	23.0	0.0	1.4	0.2	12.2	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.37	0.90
804	BP 11	2.40	0.840	29.3	0.0	4.2	23.1	0.0	1.4	0.2	11.7	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.37	0.90
805	BP 11	2.30	0.840	29.3	0.0	4.1	23.2	0.0	1.4	0.2	11.2	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.36	0.90
806	BP 11	2.20	0.840	29.3	0.0	4.1	23.3	0.0	1.4	0.2	10.7	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.36	0.90
807	BP 11	2.10	0.840	29.3	0.0	4.0	23.4	0.0	1.4	0.2	10.2	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.36	0.90
808	BP 11	2.00	0.840	29.3	0.0	3.9	23.5	0.0	1.4	0.2	9.7	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.36	0.90
809	BP 11	1.90	0.840	29.3	0.0	3.9	23.6	0.0	1.4	0.2	9.3	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.36	0.90
810	BP 11	1.80	0.840	29.3	0.0	3.8	23.7	0.0	1.4	0.2	8.8	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.36	0.90
811	BP 11	1.70	0.840	29.3	0.0	3.7	23.9	0.0	1.4	0.2	8.3	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.35	0.90
812	BP 11	1.60	0.840	29.3	0.0	3.6	24.0	0.0	1.4	0.2	7.8	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.35	0.90
813	BP 11	1.50	0.840	29.3	0.0	3.6	24.1	0.0	1.4	0.2	7.3	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.35	0.90
814	BP 11	1.40	0.840	29.3	0.0	3.5	24.2	0.0	1.4	0.2	6.8	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.35	0.90
815	BP 11	1.30	0.840	29.3	0.0	3.4	24.3	0.0	1.4	0.2	6.3	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.35	0.90
816	BP 11	1.20	0.840	29.3	0.0	3.4	24.4	0.0	1.4	0.2	5.8	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.34	0.90
817	BP 11	1.10	0.840	29.3	0.0	3.3	24.5	0.0	1.4	0.2	5.4	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.34	0.90
818	BP 11	1.00	0.840	29.3	0.0	3.2	24.6	0.0	1.4	0.2	4.9	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.34	0.90
819	BP 11	0.90	0.840	29.3	0.0	3.2	24.7	0.0	1.4	0.2	4.4	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.34	0.90
820	BP 11	0.80	0.840	29.3	0.0	3.1	24.8	0.0	1.4	0.2	3.9	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.34	0.90
821	BP 11	0.70	0.840	29.3	0.0	3.0	24.9	0.0	1.4	0.2	3.4	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.33	0.90
822	BP 11	0.60	0.840	29.3	0.0	3.0	25.0	0.0	1.4	0.2	2.9	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.33	0.90

823	BP 11	0.50	0.840	29.3	0.0	2.9	25.1	0.0	1.4	0.2	2.4	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.33	0.90
824	BP 11	0.40	0.840	29.3	0.0	2.8	25.2	0.0	1.4	0.2	1.9	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.32	0.90
825	BP 11	0.30	0.840	29.3	0.0	2.8	25.3	0.0	1.4	0.2	1.5	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.32	0.90
826	BP 11	0.20	0.840	29.3	0.0	2.7	25.4	0.0	1.4	0.2	1.0	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.32	0.90
827	BP 11	0.10	0.840	29.3	0.0	2.6	25.5	0.0	1.4	0.2	0.5	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.32	0.90
828	BP 11	0.00	0.840	29.3	0.0	2.6	25.5	0.0	1.4	0.2	0.0	0.0	1.10	30.0	0.025	0.025	7.7	0.756	0.17	0.00	0.00	0.00	0.31	0.90

EXPANDED CAPSULE SUMMARY FOR Upper Grand River #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 mg/L	CHLA µg/L	ADVEC m≤/s	MEAN m	DO m	REAER m/s	BOD1 m/s	BOD1 mg/L	BOD2 1/da	BOD2 1/da	NH3 1/da	VELO 1/da	VELO 1/da	SAT 1/da	RATE 1/da	DECA g/m≤/d	SETT	DECA	SETT	DECA	SOD
879	U1 13	12.30	3.940	31.5	0.0	3.2	15.8	0.0	1.4	0.0	32.1	0.0	1.10	88.0	0.041	0.041	7.4	0.849	0.51	0.00	0.00	0.00	0.40	3.30						
880	U1 13	12.20	3.940	31.5	0.0	3.0	15.5	0.0	1.4	0.0	32.1	0.0	1.10	88.0	0.041	0.041	7.4	0.848	0.51	0.00	0.00	0.00	0.40	3.30						
881	U1 13	12.10	3.940	31.5	0.0	2.9	15.3	0.0	1.4	0.0	32.2	0.0	1.10	88.0	0.041	0.041	7.4	0.848	0.51	0.00	0.00	0.00	0.39	3.30						
882	U1 13	12.00	3.940	31.5	0.0	2.8	15.1	0.0	1.4	0.0	32.3	0.0	1.10	88.0	0.041	0.041	7.4	0.848	0.51	0.00	0.00	0.00	0.38	3.29						
883	U1 13	11.90	3.940	31.5	0.0	2.7	14.9	0.0	1.4	0.0	32.4	0.0	1.10	88.0	0.041	0.041	7.4	0.848	0.51	0.00	0.00	0.00	0.38	3.29						
884	U1 13	11.80	3.940	31.5	0.0	2.6	14.7	0.0	1.4	0.0	32.4	0.0	1.10	88.0	0.041	0.041	7.4	0.848	0.51	0.00	0.00	0.00	0.37	3.29						
885	U1 13	11.70	3.940	31.4	0.0	2.5	14.5	0.0	1.4	0.0	32.5	0.0	1.10	88.0	0.041	0.041	7.4	0.848	0.51	0.00	0.00	0.00	0.37	3.29						
886	U1 13	11.60	3.940	31.4	0.0	2.4	14.3	0.0	1.4	0.0	32.6	0.0	1.10	88.0	0.041	0.041	7.4	0.848	0.51	0.00	0.00	0.00	0.36	3.29						
887	U1 13	11.50	3.940	31.4	0.0	2.3	14.1	0.0	1.4	0.0	32.6	0.0	1.10	88.0	0.041	0.041	7.4	0.848	0.51	0.00	0.00	0.00	0.36	3.29						
888	U1 13	11.40	3.940	31.4	0.0	2.2	13.9	0.0	1.4	0.0	32.7	0.0	1.10	88.0	0.041	0.041	7.4	0.847	0.51	0.00	0.00	0.00	0.35	3.28						
889	U1 13	11.30	3.940	31.4	0.0	2.1	13.7	0.0	1.4	0.0	32.8	0.0	1.10	88.0	0.041	0.041	7.4	0.847	0.51	0.00	0.00	0.00	0.34	3.28						
890	U1 13	11.20	3.940	31.4	0.0	2.1	13.5	0.0	1.4	0.0	32.9	0.0	1.10	88.0	0.041	0.041	7.4	0.847	0.51	0.00	0.00	0.00	0.34	3.28						
891	U1 13	11.10	3.940	31.4	0.0	2.0	13.3	0.0	1.4	0.0	32.9	0.0	1.10	88.0	0.041	0.041	7.4	0.847	0.50	0.00	0.00	0.00	0.33	3.27						
892	U1 13	11.00	3.940	31.4	0.0	1.9	13.1	0.0	1.4	0.0	33.0	0.0	1.10	88.0	0.041	0.041	7.4	0.847	0.49	0.00	0.00	0.00	0.31	3.18						
893	U1 13	10.90	3.940	31.4	0.0	1.9	12.9	0.0	1.4	0.0	33.1	0.0	1.10	88.0	0.041	0.041	7.4	0.847	0.48	0.00	0.00	0.00	0.28	3.10						
894	U1 13	10.80	3.940	31.4	0.0	1.9	12.8	0.0	1.4	0.0	33.1	0.0	1.10	88.0	0.041	0.041	7.4	0.847	0.47	0.00	0.00	0.00	0.26	3.04						
895	U1 13	10.70	3.940	31.4	0.0	1.8	12.6	0.0	1.4	0.0	33.2	0.0	1.10	88.0	0.041	0.041	7.4	0.847	0.46	0.00	0.00	0.00	0.24	2.99						
896	U1 13	10.60	3.940	31.4	0.0	1.8	12.4	0.0	1.4	0.0	33.3	0.0	1.10	88.0	0.041	0.041	7.4	0.846	0.45	0.00	0.00	0.00	0.23	2.94						
897	U1 13	10.50	3.940	31.3	0.0	1.8	12.3	0.0	1.4	0.0	33.4	0.0	1.10	88.0	0.041	0.041	7.4	0.846	0.45	0.00	0.00	0.00	0.22	2.91						
898	U1 13	10.40	3.940	31.3	0.0	1.8	12.1	0.0	1.4	0.0	33.4	0.0	1.10	88.0	0.041	0.041	7.4	0.846	0.45	0.00	0.00	0.00	0.22	2.89						
899	U1 13	10.30	3.940	31.3	0.0	1.8	12.0	0.0	1.4	0.0	33.5	0.0	1.10	88.0	0.041	0.041	7.4	0.846	0.44	0.00	0.00	0.00	0.21	2.87						
900	U1 13	10.20	3.940	31.3	0.0	1.8	11.8	0.0	1.4	0.0	33.6	0.0	1.10	88.0	0.041	0.041	7.4	0.846	0.44	0.00	0.00	0.00	0.21	2.86						
901	U1 13	10.10	3.940	31.3	0.0	1.7	11.7	0.0	1.4	0.0	33.6	0.0	1.10	88.0	0.041	0.041	7.4	0.846	0.44	0.00	0.00	0.00	0.21	2.85						
902	U1 13	10.00	3.940	31.3	0.0	1.7	11.5	0.0	1.4	0.0	33.7	0.0	1.10	88.0	0.041	0.041	7.4	0.846	0.44	0.00	0.00	0.00	0.20	2.84						
903	U1 13	9.90	3.940	31.3	0.0	1.7	11.4	0.0	1.4	0.0	33.8	0.0	1.10	88.0	0.041	0.041	7.4	0.846	0.44	0.00	0.00	0.00	0.20	2.84						
904	U1 13	9.80	3.940	31.3	0.0	1.7	11.2	0.0	1.4	0.0	33.9	0.0	1.10	88.0	0.041	0.041	7.4	0.845	0.44	0.00	0.00	0.00	0.20	2.84						
905	U1 13	9.70	3.940	31.3	0.0	1.7	11.1	0.0	1.4	0.0	33.9	0.0	1.10	88.0	0.041	0.041	7.4	0.845	0.44	0.00	0.00	0.00	0.21	2.84						
906	U1 13	9.60	3.940	31.3	0.0	1.8	11.0	0.0	1.4	0.0	34.0	0.0	1.10	88.0	0.041	0.041	7.4	0.845	0.44	0.00	0.00	0.00	0.21	2.85						
WASTELOAD # 907 (Superior Canal) ENTERS HERE																														
907	U1 13	9.50	4.908	31.3	0.0	2.5	10.7	0.0	1.4	0.1	34.1	0.0	1.10	88.0	0.051	0.051	7.4	0.943	0.50	0.00	0.00	0.00	0.36	3.25						
908	U1 13	9.40	4.908	31.2	0.0	2.5	10.5	0.0	1.4	0.1	34.1	0.0	1.10	88.0	0.051	0.051	7.4	0.943	0.50	0.00	0.00	0.00	0.36	3.25						
909	U1 13	9.30	4.908	31.2	0.0	2.4	10.4	0.0	1.4	0.1	34.2	0.0	1.10	88.0	0.051	0.051	7.4	0.943	0.50	0.00	0.00	0.00	0.36	3.25						
910	U1 13	9.20	4.908	31.2	0.0	2.4	10.3	0.0	1.4	0.1	34.3	0.0	1.10	88.0	0.051	0.051	7.4	0.943	0.50	0.00	0.00	0.00	0.36	3.25						
911	U1 13	9.10	4.908	31.2	0.0	2.4	10.2	0.0	1.4	0.1	34.4	0.0	1.10	88.0	0.051	0.051	7.4	0.943	0.50	0.00	0.00	0.00	0.36	3.24						
912	U1 13	9.00	4.908	31.2	0.0	2.4	10.1	0.0	1.4	0.1	34.4	0.0	1.10	88.0	0.051	0.051	7.4	0.943	0.50	0.00	0.00	0.00	0.36	3.24						
913	U1 13	8.90	4.908	31.2	0.0	2.4	10.0	0.0	1.4	0.1	34.5	0.0	1.10	88.0	0.051	0.051	7.4	0.942	0.50	0.00	0.00	0.00	0.35	3.24						
914	U1 13	8.80	4.908	31.2	0.0	2.4	9.8	0.0	1.4	0.1	34.6	0.0	1.10	88.0	0.051	0.051	7.4	0.942	0.50	0.00	0.00	0.00	0.35	3.24						
915	U1 13	8.70	4.908	31.2	0.0	2.4	9.7	0.0	1.4	0.1	34.6	0.0	1.10	88.0	0.051	0.051	7.4	0.942	0.50	0.00	0.00	0.00	0.35	3.24						
916	U1 13	8.60	4.908	31.2	0.0	2.4	9.6	0.0	1.4	0.1	34.7	0.0	1.10	88.0	0.051	0.051	7.4	0.942	0.50	0.00	0.00	0.00	0.35	3.24						
917	U1 13	8.50	4.908	31.2	0.0	2.4	9.5	0.0	1.4	0.1	34.8	0.0	1.10	88.0	0.051	0.051	7.4	0.942	0.50	0.00	0.00	0.00	0.35	3.23						
918	U1 13	8.40	4.908	31.2	0.0	2.4	9.4	0.0	1.4	0.1	34.9	0.0	1.10	88.0	0.051	0.051	7.4	0.942	0.50	0.00	0.00	0.00	0.35	3.23						
919	U1 13	8.30	4.908	31.2	0.0	2.4	9.3	0.0	1.4	0.1	34.9	0.0	1.10	88.0	0.051	0.051	7.4	0.942	0.50	0.00	0.00	0.00	0.35	3.23						
920	U1 13	8.20	4.908	31.1	0.0	2.4	9.2	0.0	1.4	0.1	35.0	0.0	1.10	88.0	0.051	0.051	7.4	0.942	0.50	0.00	0.00	0.00	0.35	3.23						
921	U1 13	8.10	4.908	31.1	0.0	2.4	9.1	0.0	1.4	0.1	35.1	0.0	1.10	88.0	0.051	0.051	7.4	0.941	0.50	0.00	0.00	0.00	0.35	3.23						

922	U1	13	8.00	4.908	31.1	0.0	2.4	9.0	0.0	1.4	0.1	35.1	0.0	1.10	88.0	0.051	0.051	7.4	0.941	0.50	0.00	0.00	0.00	0.35	3.23
923	U1	13	7.90	4.908	31.1	0.0	2.4	8.9	0.0	1.4	0.1	35.2	0.0	1.10	88.0	0.051	0.051	7.4	0.941	0.50	0.00	0.00	0.00	0.35	3.22
924	U1	13	7.80	4.908	31.1	0.0	2.4	8.8	0.0	1.4	0.1	35.3	0.0	1.10	88.0	0.051	0.051	7.4	0.941	0.50	0.00	0.00	0.00	0.35	3.22
925	U1	13	7.70	4.908	31.1	0.0	2.4	8.7	0.0	1.4	0.1	35.4	0.0	1.10	88.0	0.051	0.051	7.4	0.941	0.50	0.00	0.00	0.00	0.35	3.22
926	U1	13	7.60	4.908	31.1	0.0	2.4	8.6	0.0	1.4	0.1	35.4	0.0	1.10	88.0	0.051	0.051	7.4	0.941	0.50	0.00	0.00	0.00	0.35	3.22
927	U1	13	7.50	4.908	31.1	0.0	2.4	8.5	0.0	1.4	0.1	35.5	0.0	1.10	88.0	0.051	0.051	7.4	0.941	0.50	0.00	0.00	0.00	0.35	3.22
928	U1	13	7.40	4.908	31.1	0.0	2.4	8.4	0.0	1.4	0.1	35.6	0.0	1.10	88.0	0.051	0.051	7.4	0.940	0.50	0.00	0.00	0.00	0.35	3.22
929	U1	13	7.30	4.908	31.1	0.0	2.4	8.3	0.0	1.4	0.1	35.6	0.0	1.10	88.0	0.051	0.051	7.4	0.940	0.50	0.00	0.00	0.00	0.35	3.21
930	U1	13	7.20	4.908	31.1	0.0	2.4	8.2	0.0	1.4	0.1	35.7	0.0	1.10	88.0	0.051	0.051	7.4	0.940	0.50	0.00	0.00	0.00	0.35	3.21
931	U1	13	7.10	4.908	31.1	0.0	2.5	8.1	0.0	1.4	0.1	35.8	0.0	1.10	88.0	0.051	0.051	7.4	0.940	0.50	0.00	0.00	0.00	0.35	3.21
932	U1	13	7.00	4.908	31.0	0.0	2.5	8.0	0.0	1.4	0.1	35.9	0.0	1.10	88.0	0.051	0.051	7.4	0.940	0.50	0.00	0.00	0.00	0.35	3.21
933	U1	13	6.90	4.908	31.0	0.0	2.5	7.9	0.0	1.4	0.1	35.9	0.0	1.10	88.0	0.051	0.051	7.4	0.940	0.50	0.00	0.00	0.00	0.36	3.21
934	U1	13	6.80	4.908	31.0	0.0	2.5	7.8	0.0	1.4	0.1	36.0	0.0	1.10	88.0	0.051	0.051	7.4	0.940	0.50	0.00	0.00	0.00	0.36	3.21
935	U1	13	6.70	4.908	31.0	0.0	2.5	7.8	0.0	1.4	0.1	36.1	0.0	1.10	88.0	0.051	0.051	7.4	0.940	0.50	0.00	0.00	0.00	0.36	3.20
936	U1	13	6.60	4.908	31.0	0.0	2.5	7.7	0.0	1.4	0.1	36.1	0.0	1.10	88.0	0.051	0.051	7.4	0.939	0.50	0.00	0.00	0.00	0.36	3.20
937	U1	13	6.50	4.908	31.0	0.0	2.5	7.6	0.0	1.4	0.1	36.2	0.0	1.10	88.0	0.051	0.051	7.4	0.939	0.50	0.00	0.00	0.00	0.36	3.20
938	U1	13	6.40	4.908	31.0	0.0	2.6	7.5	0.0	1.4	0.1	36.3	0.0	1.10	88.0	0.051	0.051	7.4	0.939	0.50	0.00	0.00	0.00	0.36	3.20
939	U1	13	6.30	4.908	31.0	0.0	2.6	7.4	0.0	1.4	0.1	36.4	0.0	1.10	88.0	0.051	0.051	7.4	0.939	0.50	0.00	0.00	0.00	0.36	3.20
940	U1	13	6.20	4.908	31.0	0.0	2.6	7.3	0.0	1.4	0.1	36.4	0.0	1.10	88.0	0.051	0.051	7.4	0.939	0.50	0.00	0.00	0.00	0.36	3.20
941	U1	13	6.10	4.908	31.0	0.0	2.6	7.2	0.0	1.4	0.1	36.5	0.0	1.10	88.0	0.051	0.051	7.4	0.939	0.50	0.00	0.00	0.00	0.36	3.19
942	U1	13	6.00	4.908	31.0	0.0	2.7	7.2	0.0	1.3	0.1	36.6	0.0	1.10	88.0	0.051	0.051	7.4	0.939	0.50	0.00	0.00	0.00	0.36	3.19
943	U1	13	5.90	4.908	31.0	0.0	2.7	7.1	0.0	1.3	0.1	36.6	0.0	1.10	88.0	0.051	0.051	7.4	0.938	0.50	0.00	0.00	0.00	0.36	3.19
944	U1	13	5.80	4.908	30.9	0.0	2.7	7.0	0.0	1.3	0.1	36.7	0.0	1.10	88.0	0.051	0.051	7.4	0.938	0.50	0.00	0.00	0.00	0.36	3.19
945	U1	13	5.70	4.908	30.9	0.0	2.7	6.9	0.0	1.3	0.1	36.8	0.0	1.10	88.0	0.051	0.051	7.4	0.938	0.50	0.00	0.00	0.00	0.36	3.19
946	U1	13	5.60	4.908	30.9	0.0	2.7	6.8	0.0	1.3	0.1	36.9	0.0	1.10	88.0	0.051	0.051	7.4	0.938	0.50	0.00	0.00	0.00	0.37	3.19
947	U1	13	5.50	4.908	30.9	0.0	2.8	6.8	0.0	1.3	0.1	36.9	0.0	1.10	88.0	0.051	0.051	7.4	0.938	0.50	0.00	0.00	0.00	0.37	3.18
948	U1	13	5.40	4.908	30.9	0.0	2.8	6.7	0.0	1.3	0.1	37.0	0.0	1.10	88.0	0.051	0.051	7.4	0.938	0.50	0.00	0.00	0.00	0.37	3.18
949	U1	13	5.30	4.908	30.9	0.0	2.8	6.6	0.0	1.3	0.1	37.1	0.0	1.10	88.0	0.051	0.051	7.4	0.938	0.50	0.00	0.00	0.00	0.37	3.18
950	U1	13	5.20	4.908	30.9	0.0	2.8	6.5	0.0	1.3	0.1	37.1	0.0	1.10	88.0	0.051	0.051	7.4	0.938	0.49	0.00	0.00	0.00	0.37	3.18
951	U1	13	5.10	4.908	30.9	0.0	2.9	6.5	0.0	1.3	0.1	37.2	0.0	1.10	88.0	0.051	0.051	7.4	0.937	0.49	0.00	0.00	0.00	0.37	3.18

EXPANDED CAPSULE SUMMARY FOR Upper Grand River #1

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 mg/L	ADVEC m≤/s	MEAN CHLA m	DO m	REAER m/s	BOD1 m/s	BOD1 mg/L	BOD2 1/da	BOD2 1/da	NH3 1/da	SAT 1/da	RATE 1/da	DECA	SETT	DECA	SETT	DECA	SOD g/m≤/d
952	U1 13	5.00	4.908	30.9	0.0	2.9	6.4	0.0	1.3	0.1	37.3	0.0	1.10	88.0	0.051	0.051	7.4	0.937	0.49	0.00	0.00	0.00	0.37	3.18
953	U1 13	4.90	4.908	30.9	0.0	2.9	6.3	0.0	1.3	0.1	37.4	0.0	1.10	88.0	0.051	0.051	7.4	0.937	0.49	0.00	0.00	0.00	0.37	3.17
954	U1 13	4.80	4.908	30.9	0.0	3.0	6.3	0.0	1.3	0.1	37.4	0.0	1.10	88.0	0.051	0.051	7.4	0.937	0.49	0.00	0.00	0.00	0.37	3.17
955	U1 13	4.70	4.908	30.9	0.0	3.0	6.2	0.0	1.3	0.1	37.5	0.0	1.10	88.0	0.051	0.051	7.4	0.937	0.49	0.00	0.00	0.00	0.37	3.17
956	U1 13	4.60	4.908	30.8	0.0	3.0	6.1	0.0	1.3	0.1	37.6	0.0	1.10	88.0	0.051	0.051	7.4	0.937	0.49	0.00	0.00	0.00	0.38	3.17
957	U1 13	4.50	4.908	30.8	0.0	3.0	6.1	0.0	1.3	0.1	37.6	0.0	1.10	88.0	0.051	0.051	7.4	0.937	0.49	0.00	0.00	0.00	0.38	3.17
958	U1 13	4.40	4.908	30.8	0.0	3.1	6.0	0.0	1.3	0.1	37.7	0.0	1.10	88.0	0.051	0.051	7.5	0.936	0.49	0.00	0.00	0.00	0.38	3.17
959	U1 13	4.30	4.908	30.8	0.0	3.1	5.9	0.0	1.3	0.1	37.8	0.0	1.10	88.0	0.051	0.051	7.5	0.936	0.49	0.00	0.00	0.00	0.38	3.16
960	U1 13	4.20	4.908	30.8	0.0	3.1	5.9	0.0	1.3	0.1	37.9	0.0	1.10	88.0	0.051	0.051	7.5	0.936	0.49	0.00	0.00	0.00	0.38	3.16
961	U1 13	4.10	4.908	30.8	0.0	3.2	5.8	0.0	1.3	0.1	37.9	0.0	1.10	88.0	0.051	0.051	7.5	0.936	0.49	0.00	0.00	0.00	0.38	3.16
962	U1 13	4.00	4.908	30.8	0.0	3.2	5.7	0.0	1.3	0.1	38.0	0.0	1.10	88.0	0.051	0.051	7.5	0.936	0.49	0.00	0.00	0.00	0.38	3.16
TRIBUTARY # 963 (Lower Flat River) ENTERS HERE																											
1007	U2 15	3.90	6.878	30.8	0.0	3.4	5.9	0.0	1.4	0.1	37.0	0.0	1.30	62.0	0.085	0.085	7.5	0.945	0.49	0.00	0.00	0.00	0.39	3.16
1008	U2 15	3.80	6.878	30.8	0.0	3.4	5.8	0.0	1.4	0.1	36.1	0.0	1.30	62.0	0.085	0.085	7.5	0.945	0.49	0.00	0.00	0.00	0.39	3.15
1009	U2 15	3.70	6.878	30.7	0.0	3.4	5.8	0.0	1.4	0.1	35.2	0.0	1.30	62.0	0.085	0.085	7.5	0.944	0.49	0.00	0.00	0.00	0.39	3.15
1010	U2 15	3.60	6.878	30.7	0.0	3.5	5.7	0.0	1.4	0.1	34.2	0.0	1.30	62.0	0.085	0.085	7.5	0.944	0.49	0.00	0.00	0.00	0.39	3.14
1011	U2 15	3.50	6.878	30.7	0.0	3.5	5.7	0.0	1.4	0.1	33.2	0.0	1.30	62.0	0.085	0.085	7.5	0.944	0.49	0.00	0.00	0.00	0.39	3.14
1012	U2 15	3.40	6.878	30.7	0.0	3.5	5.7	0.0	1.4	0.1	32.3	0.0	1.30	62.0	0.085	0.085	7.5	0.943	0.49	0.00	0.00	0.00	0.39	3.14
1013	U2 15	3.30	6.878	30.7	0.0	3.5	5.6	0.0	1.4	0.1	31.4	0.0	1.30	62.0	0.085	0.085	7.5	0.943	0.49	0.00	0.00	0.00	0.39	3.13
1014	U2 15	3.20	6.878	30.7	0.0	3.5	5.6	0.0	1.4	0.1	30.4	0.0	1.30	62.0	0.085	0.085	7.5	0.943	0.49	0.00	0.00	0.00	0.39	3.13
1015	U2 15	3.10	6.878	30.6	0.0	3.5	5.5	0.0	1.4	0.1	29.5	0.0	1.30	62.0	0.085	0.085	7.5	0.943	0.49	0.00	0.00	0.00	0.39	3.13
1016	U2 15	3.00	6.878	30.6	0.0	3.5	5.5	0.0	1.4	0.1	28.5	0.0	1.30	62.0	0.085	0.085	7.5	0.942	0.49	0.00	0.00	0.00	0.39	3.12
1017	U2 15	2.90	6.878	30.6	0.0	3.5	5.5	0.0	1.4	0.1	27.5	0.0	1.30	62.0	0.085	0.085	7.5	0.942	0.49	0.00	0.00	0.00	0.39	3.12
1018	U2 15	2.80	6.878	30.6	0.0	3.6	5.4	0.0	1.4	0.1	26.6	0.0	1.30	62.0	0.085	0.085	7.5	0.942	0.49	0.00	0.00	0.00	0.39	3.12
1019	U2 15	2.70	6.878	30.6	0.0	3.6	5.4	0.0	1.4	0.1	25.6	0.0	1.30	62.0	0.085	0.085	7.5	0.941	0.49	0.00	0.00	0.00	0.39	3.11
1020	U2 15	2.60	6.878	30.6	0.0	3.6	5.4	0.0	1.4	0.1	24.7	0.0	1.30	62.0	0.085	0.085	7.5	0.941	0.49	0.00	0.00	0.00	0.39	3.11
1021	U2 15	2.50	6.878	30.5	0.0	3.6	5.3	0.0	1.4	0.1	23.8	0.0	1.30	62.0	0.085	0.085	7.5	0.941	0.49	0.00	0.00	0.00	0.39	3.11
1022	U2 15	2.40	6.878	30.5	0.0	3.6	5.3	0.0	1.3	0.1	22.8	0.0	1.30	62.0	0.085	0.085	7.5	0.941	0.49	0.00	0.00	0.00	0.39	3.10
1023	U2 15	2.30	6.878	30.5	0.0	3.6	5.3	0.0	1.3	0.1	21.9	0.0	1.30	62.0	0.085	0.085	7.5	0.940	0.49	0.00	0.00	0.00	0.39	3.10
1024	U2 15	2.20	6.878	30.5	0.0	3.6	5.2	0.0	1.3	0.1	20.9	0.0	1.30	62.0	0.085	0.085	7.5	0.940	0.49	0.00	0.00	0.00	0.39	3.10
1025	U2 15	2.10	6.878	30.5	0.0	3.6	5.2	0.0	1.3	0.1	20.0	0.0	1.30	62.0	0.085	0.085	7.5	0.940	0.49	0.00	0.00	0.00	0.39	3.09
1026	U2 15	2.00	6.878	30.4	0.0	3.6	5.2	0.0	1.3	0.1	19.0	0.0	1.30	62.0	0.085	0.085	7.5	0.939	0.48	0.00	0.00	0.00	0.39	3.09
1027	U2 15	1.90	6.878	30.4	0.0	3.6	5.1	0.0	1.3	0.1	18.1	0.0	1.30	62.0	0.085	0.085	7.5	0.939	0.48	0.00	0.00	0.00	0.38	3.09
1028	U2 15	1.80	6.878	30.4	0.0	3.6	5.1	0.0	1.3	0.1	17.1	0.0	1.30	62.0	0.085	0.085	7.5	0.939	0.48	0.00	0.00	0.00	0.38	3.08
1029	U2 15	1.70	6.878	30.4	0.0	3.6	5.1	0.0	1.3	0.1	16.1	0.0	1.30	62.0	0.085	0.085	7.5	0.939	0.48	0.00	0.00	0.00	0.38	3.08
1030	U2 15	1.60	6.878	30.4	0.0	3.6	5.0	0.0	1.3	0.1	15.2	0.0	1.30	62.0	0.085	0.085	7.5	0.938	0.48	0.00	0.00	0.00	0.38	3.08
1031	U2 15	1.50	6.878	30.4	0.0	3.6	5.0	0.0	1.3	0.1	14.2	0.0	1.30	62.0	0.085	0.085	7.5	0.938	0.48	0.00	0.00	0.00	0.38	3.07
1032	U2 15	1.40	6.878	30.3	0.0	3.6	5.0	0.0	1.3	0.1	13.3	0.0	1.30	62.0	0.085	0.085	7.5	0.938	0.48	0.00	0.00	0.00	0.38	3.07
1033	U2 15	1.30	6.878	30.3	0.0	3.6	4.9	0.0	1.3	0.1	12.4	0.0	1.30	62.0	0.085	0.085	7.5	0.937	0.48	0.00	0.00	0.00	0.38	3.07
1034	U2 15	1.20	6.878	30.3	0.0	3.6	4.9	0.0	1.3	0.1	11.4	0.0	1.30	62.0	0.085	0.085	7.5	0.937	0.48	0.00	0.00	0.00	0.38	3.06
1035	U2 15	1.10	6.878	30.3	0.0	3.6	4.9	0.0	1.3	0.1	10.5	0.0	1.30	62.0	0.085	0.085	7.5	0.937	0.48	0.00	0.00	0.00	0.38	3.06
1036	U2 15	1.00	6.878	30.3	0.0	3.6	4.8	0.0	1.3	0.1	9.5	0.0	1.30	62.0	0.085	0.085	7.5	0.937	0.48	0.00	0.00	0.00	0.38	3.06
1037	U2 15	0.90	6.878	30.3	0.0	3.6	4.8	0.0	1.3	0.1	8.6	0.0	1.30	62.0	0.085	0.085	7.5	0.936	0.48	0.00	0.00	0.00	0.38	3.05
1038	U2 15	0.80	6.878	30.2	0.0	3.6	4.8	0.0	1.3	0.1	7.6	0.0	1.30	62.0	0.085	0.085	7.5	0.936	0.48	0.00	0.00	0.00	0.38	3.05

1039	U2	15	0.70	6.878	30.2	0.0	3.6	4.7	0.0	1.3	0.1	6.7	0.0	1.30	62.0	0.085	0.085	7.5	0.936	0.48	0.00	0.00	0.00	0.38	3.05
1040	U2	15	0.60	6.878	30.2	0.0	3.6	4.7	0.0	1.3	0.1	5.7	0.0	1.30	62.0	0.085	0.085	7.5	0.935	0.48	0.00	0.00	0.00	0.38	3.04
1041	U2	15	0.50	6.878	30.2	0.0	3.6	4.7	0.0	1.3	0.1	4.8	0.0	1.30	62.0	0.085	0.085	7.5	0.935	0.48	0.00	0.00	0.00	0.38	3.04
1042	U2	15	0.40	6.878	30.2	0.0	3.5	4.7	0.0	1.3	0.1	3.8	0.0	1.30	62.0	0.085	0.085	7.5	0.935	0.48	0.00	0.00	0.00	0.37	3.04
1043	U2	15	0.30	6.878	30.2	0.0	3.5	4.6	0.0	1.3	0.1	2.9	0.0	1.30	62.0	0.085	0.085	7.5	0.935	0.48	0.00	0.00	0.00	0.37	3.03
1044	U2	15	0.20	6.878	30.1	0.0	3.5	4.6	0.0	1.3	0.1	1.9	0.0	1.30	62.0	0.085	0.085	7.5	0.934	0.48	0.00	0.00	0.00	0.37	3.03
1045	U2	15	0.10	6.878	30.1	0.0	3.5	4.6	0.0	1.3	0.1	1.0	0.0	1.30	62.0	0.085	0.085	7.5	0.934	0.48	0.00	0.00	0.00	0.37	3.03
1046	U2	15	0.00	6.878	30.1	0.0	3.5	4.5	0.0	1.3	0.1	0.0	0.0	1.30	62.0	0.085	0.085	7.5	0.934	0.48	0.00	0.00	0.00	0.37	3.02

EXPANDED CAPSULE SUMMARY FOR Lower Flat River

IOR	REACH	DIST km	FLOW m≥/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m≤/s	ADVEC CHLA m	MEAN DISP m	DO DEPTH m/s	REAER m/s	BOD1 mg/L	BOD1 WIDTH	BOD2 VELO 1/da	BOD2 VELO 1/da	NH3 SAT 1/da	RATE DECA 1/da	SETT DECA 1/da	SETT DECA 1/da	SOD g/m≤/d
963	LF 14	4.30	1.970	30.5	0.0	5.3	11.8	0.0	1.4	0.0	0.9	0.0	0.80	64.0	0.038	0.038	7.5	1.308	0.49	0.00	0.00	0.00	0.43	2.52
964	LF 14	4.20	1.970	30.5	0.0	5.1	11.7	0.0	1.4	0.0	1.7	0.0	0.80	64.0	0.038	0.038	7.5	1.308	0.49	0.00	0.00	0.00	0.43	2.52
965	LF 14	4.10	1.970	30.5	0.0	5.0	11.5	0.0	1.4	0.0	2.6	0.0	0.80	64.0	0.038	0.038	7.5	1.308	0.49	0.00	0.00	0.00	0.42	2.52
966	LF 14	4.00	1.970	30.5	0.0	4.8	11.3	0.0	1.4	0.0	3.5	0.0	0.80	64.0	0.038	0.038	7.5	1.308	0.49	0.00	0.00	0.00	0.42	2.52
967	LF 14	3.90	1.970	30.5	0.0	4.7	11.2	0.0	1.4	0.0	4.3	0.0	0.80	64.0	0.038	0.038	7.5	1.309	0.49	0.00	0.00	0.00	0.42	2.52
968	LF 14	3.80	1.970	30.5	0.0	4.6	11.0	0.0	1.4	0.0	5.2	0.0	0.80	64.0	0.038	0.038	7.5	1.309	0.49	0.00	0.00	0.00	0.41	2.52
969	LF 14	3.70	1.970	30.5	0.0	4.4	10.8	0.0	1.4	0.0	6.0	0.0	0.80	64.0	0.038	0.038	7.5	1.309	0.49	0.00	0.00	0.00	0.41	2.53
970	LF 14	3.60	1.970	30.6	0.0	4.3	10.7	0.0	1.4	0.0	6.9	0.0	0.80	64.0	0.038	0.038	7.5	1.309	0.49	0.00	0.00	0.00	0.41	2.53
971	LF 14	3.50	1.970	30.6	0.0	4.2	10.5	0.0	1.4	0.0	7.8	0.0	0.80	64.0	0.038	0.038	7.5	1.309	0.49	0.00	0.00	0.00	0.41	2.53
972	LF 14	3.40	1.970	30.6	0.0	4.1	10.4	0.0	1.4	0.0	8.6	0.0	0.80	64.0	0.038	0.038	7.5	1.309	0.49	0.00	0.00	0.00	0.40	2.53
973	LF 14	3.30	1.970	30.6	0.0	4.0	10.2	0.0	1.4	0.0	9.5	0.0	0.80	64.0	0.038	0.038	7.5	1.309	0.49	0.00	0.00	0.00	0.40	2.53
974	LF 14	3.20	1.970	30.6	0.0	4.0	10.1	0.0	1.4	0.0	10.4	0.0	0.80	64.0	0.038	0.038	7.5	1.310	0.49	0.00	0.00	0.00	0.40	2.53
975	LF 14	3.10	1.970	30.6	0.0	3.9	9.9	0.0	1.4	0.0	11.2	0.0	0.80	64.0	0.038	0.038	7.5	1.310	0.49	0.00	0.00	0.00	0.40	2.53
976	LF 14	3.00	1.970	30.6	0.0	3.8	9.8	0.0	1.4	0.0	12.1	0.0	0.80	64.0	0.038	0.038	7.5	1.310	0.49	0.00	0.00	0.00	0.40	2.53
977	LF 14	2.90	1.970	30.6	0.0	3.8	9.6	0.0	1.4	0.0	13.0	0.0	0.80	64.0	0.038	0.038	7.5	1.310	0.49	0.00	0.00	0.00	0.40	2.53
978	LF 14	2.80	1.970	30.6	0.0	3.7	9.5	0.0	1.4	0.0	13.8	0.0	0.80	64.0	0.038	0.038	7.5	1.310	0.49	0.00	0.00	0.00	0.39	2.54
979	LF 14	2.70	1.970	30.6	0.0	3.7	9.4	0.0	1.4	0.0	14.7	0.0	0.80	64.0	0.038	0.038	7.5	1.310	0.49	0.00	0.00	0.00	0.39	2.54
980	LF 14	2.60	1.970	30.6	0.0	3.6	9.2	0.0	1.4	0.0	15.5	0.0	0.80	64.0	0.038	0.038	7.5	1.311	0.49	0.00	0.00	0.00	0.39	2.54
981	LF 14	2.50	1.970	30.6	0.0	3.6	9.1	0.0	1.4	0.0	16.4	0.0	0.80	64.0	0.038	0.038	7.5	1.311	0.49	0.00	0.00	0.00	0.39	2.54
982	LF 14	2.40	1.970	30.6	0.0	3.5	9.0	0.0	1.4	0.0	17.3	0.0	0.80	64.0	0.038	0.038	7.5	1.311	0.49	0.00	0.00	0.00	0.39	2.54
983	LF 14	2.30	1.970	30.6	0.0	3.5	8.8	0.0	1.4	0.0	18.1	0.0	0.80	64.0	0.038	0.038	7.5	1.311	0.49	0.00	0.00	0.00	0.39	2.54
984	LF 14	2.20	1.970	30.6	0.0	3.5	8.7	0.0	1.4	0.0	19.0	0.0	0.80	64.0	0.038	0.038	7.5	1.311	0.49	0.00	0.00	0.00	0.39	2.54
985	LF 14	2.10	1.970	30.7	0.0	3.5	8.6	0.0	1.4	0.0	19.9	0.0	0.80	64.0	0.038	0.038	7.5	1.311	0.49	0.00	0.00	0.00	0.39	2.54
986	LF 14	2.00	1.970	30.7	0.0	3.5	8.5	0.0	1.4	0.0	20.7	0.0	0.80	64.0	0.038	0.038	7.5	1.311	0.49	0.00	0.00	0.00	0.39	2.54
987	LF 14	1.90	1.970	30.7	0.0	3.5	8.3	0.0	1.4	0.0	21.6	0.0	0.80	64.0	0.038	0.038	7.5	1.312	0.49	0.00	0.00	0.00	0.39	2.55
988	LF 14	1.80	1.970	30.7	0.0	3.5	8.2	0.0	1.4	0.0	22.5	0.0	0.80	64.0	0.038	0.038	7.5	1.312	0.49	0.00	0.00	0.00	0.39	2.55
989	LF 14	1.70	1.970	30.7	0.0	3.4	8.1	0.0	1.4	0.0	23.3	0.0	0.80	64.0	0.038	0.038	7.5	1.312	0.49	0.00	0.00	0.00	0.39	2.55
990	LF 14	1.60	1.970	30.7	0.0	3.5	8.0	0.0	1.4	0.0	24.2	0.0	0.80	64.0	0.038	0.038	7.5	1.312	0.49	0.00	0.00	0.00	0.39	2.55
991	LF 14	1.50	1.970	30.7	0.0	3.5	7.9	0.0	1.4	0.0	25.0	0.0	0.80	64.0	0.038	0.038	7.5	1.312	0.49	0.00	0.00	0.00	0.39	2.55
992	LF 14	1.40	1.970	30.7	0.0	3.5	7.7	0.0	1.4	0.0	25.9	0.0	0.80	64.0	0.038	0.038	7.5	1.312	0.49	0.00	0.00	0.00	0.39	2.55
993	LF 14	1.30	1.970	30.7	0.0	3.5	7.6	0.0	1.4	0.0	26.8	0.0	0.80	64.0	0.038	0.038	7.5	1.313	0.49	0.00	0.00	0.00	0.39	2.55
994	LF 14	1.20	1.970	30.7	0.0	3.5	7.5	0.0	1.4	0.0	27.6	0.0	0.80	64.0	0.038	0.038	7.5	1.313	0.49	0.00	0.00	0.00	0.39	2.55
995	LF 14	1.10	1.970	30.7	0.0	3.5	7.4	0.0	1.4	0.0	28.5	0.0	0.80	64.0	0.038	0.038	7.5	1.313	0.49	0.00	0.00	0.00	0.39	2.55
996	LF 14	1.00	1.970	30.7	0.0	3.5	7.3	0.0	1.4	0.0	29.4	0.0	0.80	64.0	0.038	0.038	7.5	1.313	0.49	0.00	0.00	0.00	0.39	2.56
997	LF 14	0.90	1.970	30.7	0.0	3.6	7.2	0.0	1.4	0.0	30.2	0.0	0.80	64.0	0.038	0.038	7.5	1.313	0.49	0.00	0.00	0.00	0.39	2.56
998	LF 14	0.80	1.970	30.7	0.0	3.6	7.1	0.0	1.4	0.1	31.1	0.0	0.80	64.0	0.038	0.038	7.5	1.313	0.49	0.00	0.00	0.00	0.39	2.56
999	LF 14	0.70	1.970	30.8	0.0	3.6	7.0	0.0	1.4	0.1	32.0	0.0	0.80	64.0	0.038	0.038	7.5	1.313	0.49	0.00	0.00	0.00	0.40	2.56
1000	LF 14	0.60	1.970	30.8	0.0	3.6	6.9	0.0	1.4	0.1	32.8	0.0	0.80	64.0	0.038	0.038	7.5	1.314	0.49	0.00	0.00	0.00	0.40	2.56
1001	LF 14	0.50	1.970	30.8	0.0	3.7	6.8	0.0	1.4	0.1	33.7	0.0	0.80	64.0	0.038	0.038	7.5	1.314	0.49	0.00	0.00	0.00	0.40	2.56
1002	LF 14	0.40	1.970	30.8	0.0	3.7	6.7	0.0	1.4	0.1	34.5	0.0	0.80	64.0	0.038	0.038	7.5	1.314	0.49	0.00	0.00	0.00	0.40	2.56
1003	LF 14	0.30	1.970	30.8	0.0	3.7	6.6	0.0	1.4	0.1	35.4	0.0	0.80	64.0	0.038	0.038	7.5	1.314	0.49	0.00	0.00	0.00	0.40	2.56
1004	LF 14	0.20	1.970	30.8	0.0	3.8	6.5	0.0	1.4	0.1	36.3	0.0	0.80	64.0	0.038	0.038	7.5	1.314	0.49	0.00	0.00	0.00	0.40	2.56
1005	LF 14	0.10	1.970	30.8	0.0	3.8	6.4	0.0	1.4	0.1	37.1	0.0	0.80	64.0	0.038	0.038	7.5	1.314	0.49	0.00	0.00	0.00	0.40	2.57
1006	LF 14	0.00	1.970	30.8	0.0	3.9	6.3	0.0	1.4	0.1	38.0	0.0	0.80	64.0	0.038	0.038	7.5	1.315	0.49	0.00	0.00	0.00	0.40	2.57

SPECIAL REPORT: Bayou Cholpe #1
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS	CHL A *	MACRO	COLI #/100mL	NCM
1	55.500	24.75	0.0	0.0	0.0	4.22	4.70	0.00	4.70	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
2	55.400	24.89	0.0	0.0	0.0	4.34	4.70	0.00	4.70	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
3	55.300	25.04	0.0	0.0	0.0	4.45	4.69	0.00	4.69	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
4	55.200	25.19	0.0	0.0	0.0	4.56	4.69	0.00	4.69	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
5	55.100	25.33	0.0	0.0	0.0	4.67	4.69	0.00	4.69	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
6	55.000	25.48	0.0	0.0	0.0	4.77	4.69	0.00	4.69	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
7	54.900	25.63	0.0	0.0	0.0	4.87	4.68	0.00	4.68	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
8	54.800	25.77	0.0	0.0	0.0	4.96	4.68	0.00	4.68	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
9	54.700	25.92	0.0	0.0	0.0	5.05	4.68	0.00	4.68	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
10	54.600	26.07	0.0	0.0	0.0	5.14	4.68	0.00	4.68	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
11	54.500	26.21	0.0	0.0	0.0	5.22	4.67	0.00	4.67	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
12	54.400	26.36	0.0	0.0	0.0	5.30	4.67	0.00	4.67	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
13	54.300	26.51	0.0	0.0	0.0	5.38	4.67	0.00	4.67	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
14	54.200	26.65	0.0	0.0	0.0	5.45	4.67	0.00	4.67	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
15	54.100	26.80	0.0	0.0	0.0	5.52	4.66	0.00	4.66	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
16	54.000	26.95	0.0	0.0	0.0	5.59	4.66	0.00	4.66	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
17	53.900	27.09	0.0	0.0	0.0	5.65	4.66	0.00	4.66	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
18	53.800	27.24	0.0	0.0	0.0	5.71	4.66	0.00	4.66	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
19	53.700	27.39	0.0	0.0	0.0	5.77	4.65	0.00	4.65	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
20	53.600	27.53	0.0	0.0	0.0	5.83	4.65	0.00	4.65	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
21	53.500	27.68	0.0	0.0	0.0	5.88	4.65	0.00	4.65	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
22	53.400	27.83	0.0	0.0	0.0	5.93	4.65	0.00	4.65	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
23	53.300	27.97	0.0	0.0	0.0	5.98	4.64	0.00	4.64	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
24	53.200	28.12	0.0	0.0	0.0	6.03	4.64	0.00	4.64	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
25	53.100	28.27	0.0	0.0	0.0	6.07	4.64	0.00	4.64	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
26	53.000	28.41	0.0	0.0	0.0	6.11	4.63	0.00	4.63	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
27	52.900	28.56	0.0	0.0	0.0	6.15	4.63	0.00	4.63	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
28	52.800	28.71	0.0	0.0	0.0	6.19	4.63	0.00	4.63	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
29	52.700	28.85	0.0	0.0	0.0	6.23	4.63	0.00	4.63	0.00	2.40	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
30	52.600	29.00	0.0	0.0	0.0	6.26	4.62	0.00	4.62	0.00	2.39	0.03	1.50	3.93	0.00	0.0	0.0	0.	0.00
31	52.500	29.00	0.0	0.0	0.0	6.03	4.80	0.00	4.80	0.00	2.33	0.04	1.41	3.78	0.00	0.0	0.0	0.	0.00
32	52.400	29.00	0.0	0.0	0.0	5.84	4.95	0.00	4.95	0.00	2.28	0.04	1.33	3.65	0.00	0.0	0.0	0.	0.00
33	52.300	29.00	0.0	0.0	0.0	5.68	5.09	0.00	5.09	0.00	2.23	0.04	1.26	3.53	0.00	0.0	0.0	0.	0.00
34	52.200	29.00	0.0	0.0	0.0	5.54	5.21	0.00	5.21	0.00	2.19	0.04	1.20	3.43	0.00	0.0	0.0	0.	0.00
35	52.100	29.00	0.0	0.0	0.0	5.43	5.31	0.00	5.31	0.00	2.15	0.04	1.14	3.33	0.00	0.0	0.0	0.	0.00
36	52.000	29.00	0.0	0.0	0.0	5.33	5.40	0.00	5.40	0.00	2.12	0.04	1.09	3.25	0.00	0.0	0.0	0.	0.00
37	51.900	29.00	0.0	0.0	0.0	5.24	5.49	0.00	5.49	0.00	2.08	0.04	1.04	3.17	0.00	0.0	0.0	0.	0.00
38	51.800	29.00	0.0	0.0	0.0	5.17	5.56	0.00	5.56	0.00	2.06	0.05	1.00	3.10	0.00	0.0	0.0	0.	0.00
39	51.700	29.00	0.0	0.0	0.0	5.10	5.63	0.00	5.63	0.00	2.03	0.05	0.96	3.03	0.00	0.0	0.0	0.	0.00
40	51.600	29.00	0.0	0.0	0.0	5.04	5.69	0.00	5.69	0.00	2.00	0.05	0.92	2.97	0.00	0.0	0.0	0.	0.00
41	51.500	29.00	0.0	0.0	0.0	4.99	5.75	0.00	5.75	0.00	1.98	0.05	0.89	2.92	0.00	0.0	0.0	0.	0.00
42	51.400	29.00	0.0	0.0	0.0	4.95	5.80	0.00	5.80	0.00	1.96	0.05	0.86	2.87	0.00	0.0	0.0	0.	0.00
43	51.300	29.00	0.0	0.0	0.0	4.91	5.85	0.00	5.85	0.00	1.94	0.05	0.83	2.82	0.00	0.0	0.0	0.	0.00
44	51.200	29.00	0.0	0.0	0.0	4.87	5.89	0.00	5.89	0.00	1.92	0.05	0.80	2.77	0.00	0.0	0.0	0.	0.00

45	51.100	29.00	0.0	0.0	0.0	4.84	5.93	0.00	5.93	0.00	1.91	0.05	0.78	2.73	0.00	0.0	0.0	0.	0.00
46	51.000	29.00	0.0	0.0	0.0	4.81	5.97	0.00	5.97	0.00	1.89	0.05	0.75	2.69	0.00	0.0	0.0	0.	0.00
47	50.900	29.00	0.0	0.0	0.0	4.78	6.00	0.00	6.00	0.00	1.88	0.05	0.73	2.66	0.00	0.0	0.0	0.	0.00
48	50.800	29.00	0.0	0.0	0.0	4.75	6.03	0.00	6.03	0.00	1.86	0.05	0.71	2.62	0.00	0.0	0.0	0.	0.00
49	50.700	29.00	0.0	0.0	0.0	4.73	6.06	0.00	6.06	0.00	1.85	0.05	0.69	2.59	0.00	0.0	0.0	0.	0.00
50	50.600	29.00	0.0	0.0	0.0	4.71	6.09	0.00	6.09	0.00	1.84	0.05	0.67	2.56	0.00	0.0	0.0	0.	0.00
51	50.500	29.00	0.0	0.0	0.0	4.69	6.12	0.00	6.12	0.00	1.83	0.05	0.65	2.53	0.00	0.0	0.0	0.	0.00
52	50.400	29.00	0.0	0.0	0.0	4.67	6.14	0.00	6.14	0.00	1.82	0.05	0.64	2.50	0.00	0.0	0.0	0.	0.00
53	50.300	29.00	0.0	0.0	0.0	4.66	6.16	0.00	6.16	0.00	1.81	0.05	0.62	2.47	0.00	0.0	0.0	0.	0.00
54	50.200	29.00	0.0	0.0	0.0	4.64	6.19	0.00	6.19	0.00	1.80	0.05	0.61	2.45	0.00	0.0	0.0	0.	0.00
55	50.100	29.00	0.0	0.0	0.0	4.63	6.21	0.00	6.21	0.00	1.79	0.05	0.59	2.43	0.00	0.0	0.0	0.	0.00
56	50.000	29.00	0.0	0.0	0.0	4.62	6.23	0.00	6.23	0.00	1.78	0.05	0.58	2.40	0.00	0.0	0.0	0.	0.00
57	49.900	29.00	0.0	0.0	0.0	4.61	6.24	0.00	6.24	0.00	1.77	0.05	0.57	2.38	0.00	0.0	0.0	0.	0.00
58	49.800	29.00	0.0	0.0	0.0	4.59	6.26	0.00	6.26	0.00	1.76	0.05	0.55	2.36	0.00	0.0	0.0	0.	0.00
59	49.700	29.00	0.0	0.0	0.0	4.58	6.28	0.00	6.28	0.00	1.75	0.05	0.54	2.34	0.00	0.0	0.0	0.	0.00
60	49.600	29.00	0.0	0.0	0.0	4.57	6.29	0.00	6.29	0.00	1.75	0.05	0.53	2.32	0.00	0.0	0.0	0.	0.00
61	49.500	29.00	0.0	0.0	0.0	4.56	6.31	0.00	6.31	0.00	1.74	0.05	0.52	2.31	0.00	0.0	0.0	0.	0.00
62	49.400	29.00	0.0	0.0	0.0	4.56	6.32	0.00	6.32	0.00	1.73	0.05	0.51	2.29	0.00	0.0	0.0	0.	0.00
63	49.300	29.00	0.0	0.0	0.0	4.55	6.33	0.00	6.33	0.00	1.73	0.05	0.50	2.27	0.00	0.0	0.0	0.	0.00
64	49.200	29.00	0.0	0.0	0.0	4.54	6.35	0.00	6.35	0.00	1.72	0.05	0.49	2.26	0.00	0.0	0.0	0.	0.00
65	49.100	29.00	0.0	0.0	0.0	4.53	6.36	0.00	6.36	0.00	1.71	0.05	0.48	2.24	0.00	0.0	0.0	0.	0.00
66	49.000	29.00	0.0	0.0	0.0	4.53	6.37	0.00	6.37	0.00	1.71	0.05	0.47	2.23	0.00	0.0	0.0	0.	0.00
67	48.900	29.00	0.0	0.0	0.0	4.52	6.38	0.00	6.38	0.00	1.70	0.05	0.46	2.21	0.00	0.0	0.0	0.	0.00
68	48.800	29.00	0.0	0.0	0.0	4.52	6.39	0.00	6.39	0.00	1.70	0.05	0.46	2.20	0.00	0.0	0.0	0.	0.00
69	48.700	29.00	0.0	0.0	0.0	4.51	6.40	0.00	6.40	0.00	1.69	0.05	0.45	2.19	0.00	0.0	0.0	0.	0.00
70	48.600	29.00	0.0	0.0	0.0	4.51	6.41	0.00	6.41	0.00	1.69	0.05	0.44	2.18	0.00	0.0	0.0	0.	0.00
71	48.500	29.00	0.0	0.0	0.0	4.51	6.42	0.00	6.42	0.00	1.68	0.05	0.43	2.16	0.00	0.0	0.0	0.	0.00
72	48.400	29.00	0.0	0.0	0.0	4.51	6.43	0.00	6.43	0.00	1.68	0.05	0.43	2.15	0.00	0.0	0.0	0.	0.00
73	48.300	29.00	0.0	0.0	0.0	4.51	6.44	0.00	6.44	0.00	1.67	0.05	0.42	2.14	0.00	0.0	0.0	0.	0.00
74	48.200	29.00	0.0	0.0	0.0	4.51	6.44	0.00	6.44	0.00	1.67	0.05	0.41	2.13	0.00	0.0	0.0	0.	0.00
75	48.100	29.00	0.0	0.0	0.0	4.51	6.45	0.00	6.45	0.00	1.67	0.05	0.41	2.12	0.00	0.0	0.0	0.	0.00
76	48.000	29.00	0.0	0.0	0.0	4.51	6.46	0.00	6.46	0.00	1.66	0.05	0.40	2.11	0.00	0.0	0.0	0.	0.00
77	47.900	29.00	0.0	0.0	0.0	4.52	6.47	0.00	6.47	0.00	1.66	0.05	0.40	2.10	0.00	0.0	0.0	0.	0.00
78	47.800	29.00	0.0	0.0	0.0	4.52	6.47	0.00	6.47	0.00	1.65	0.05	0.39	2.09	0.00	0.0	0.0	0.	0.00
79	47.700	29.00	0.0	0.0	0.0	4.52	6.48	0.00	6.48	0.00	1.65	0.05	0.38	2.08	0.00	0.0	0.0	0.	0.00
80	47.600	29.00	0.0	0.0	0.0	4.53	6.49	0.00	6.49	0.00	1.65	0.05	0.38	2.07	0.00	0.0	0.0	0.	0.00
81	47.500	29.00	0.0	0.0	0.0	4.53	6.49	0.00	6.49	0.00	1.64	0.05	0.37	2.06	0.00	0.0	0.0	0.	0.00
82	47.400	29.00	0.0	0.0	0.0	4.53	6.50	0.00	6.50	0.00	1.64	0.05	0.37	2.06	0.00	0.0	0.0	0.	0.00
83	47.300	29.00	0.0	0.0	0.0	4.54	6.51	0.00	6.51	0.00	1.64	0.05	0.36	2.05	0.00	0.0	0.0	0.	0.00
84	47.200	29.00	0.0	0.0	0.0	4.54	6.51	0.00	6.51	0.00	1.63	0.05	0.36	2.04	0.00	0.0	0.0	0.	0.00
85	47.100	29.00	0.0	0.0	0.0	4.55	6.52	0.00	6.52	0.00	1.63	0.05	0.35	2.03	0.00	0.0	0.0	0.	0.00
86	47.000	29.00	0.0	0.0	0.0	4.56	6.52	0.00	6.52	0.00	1.63	0.05	0.35	2.02	0.00	0.0	0.0	0.	0.00
87	46.900	29.00	0.0	0.0	0.0	4.56	6.53	0.00	6.53	0.00	1.63	0.05	0.34	2.02	0.00	0.0	0.0	0.	0.00
88	46.800	29.00	0.0	0.0	0.0	4.57	6.53	0.00	6.53	0.00	1.62	0.05	0.34	2.01	0.00	0.0	0.0	0.	0.00
89	46.700	29.00	0.0	0.0	0.0	4.57	6.54	0.00	6.54	0.00	1.62	0.05	0.34	2.00	0.00	0.0	0.0	0.	0.00
90	46.600	29.00	0.0	0.0	0.0	4.58	6.54	0.00	6.54	0.00	1.62	0.05	0.33	2.00	0.00	0.0	0.0	0.	0.00
91	46.500	29.00	0.0	0.0	0.0	4.59	6.55	0.00	6.55	0.00	1.62	0.05	0.33	1.99	0.00	0.0	0.0	0.	0.00
92	46.400	29.00	0.0	0.0	0.0	4.59	6.55	0.00	6.55	0.00	1.61	0.05	0.32	1.98	0.00	0.0	0.0	0.	0.00
93	46.300	29.00	0.0	0.0	0.0	4.60	6.55	0.00	6.55	0.00	1.61	0.05	0.32	1.98	0.00	0.0	0.0	0.	0.00
94	46.200	29.00	0.0	0.0	0.0	4.61	6.56	0.00	6.56	0.00	1.61	0.05	0.32	1.97	0.00	0.0	0.0	0.	0.00

95	46.100	29.00	0.0	0.0	0.0	4.62	6.56	0.00	6.56	0.00	1.61	0.05	0.31	1.97	0.00	0.0	0.0	0.	0.00
96	46.000	29.00	0.0	0.0	0.0	4.62	6.57	0.00	6.57	0.00	1.60	0.05	0.31	1.96	0.00	0.0	0.0	0.	0.00
97	45.900	29.00	0.0	0.0	0.0	4.63	6.57	0.00	6.57	0.00	1.60	0.05	0.31	1.95	0.00	0.0	0.0	0.	0.00
98	45.800	29.00	0.0	0.0	0.0	4.64	6.57	0.00	6.57	0.00	1.60	0.05	0.30	1.95	0.00	0.0	0.0	0.	0.00
99	45.700	29.00	0.0	0.0	0.0	4.64	6.58	0.00	6.58	0.00	1.60	0.05	0.30	1.94	0.00	0.0	0.0	0.	0.00
100	45.600	29.00	0.0	0.0	0.0	4.65	6.58	0.00	6.58	0.00	1.60	0.05	0.30	1.94	0.00	0.0	0.0	0.	0.00
101	45.500	29.00	0.0	0.0	0.0	4.66	6.58	0.00	6.58	0.00	1.59	0.05	0.29	1.93	0.00	0.0	0.0	0.	0.00
102	45.400	29.00	0.0	0.0	0.0	4.67	6.59	0.00	6.59	0.00	1.59	0.05	0.29	1.93	0.00	0.0	0.0	0.	0.00
103	45.300	29.00	0.0	0.0	0.0	4.67	6.59	0.00	6.59	0.00	1.59	0.05	0.29	1.92	0.00	0.0	0.0	0.	0.00
104	45.200	29.00	0.0	0.0	0.0	4.68	6.59	0.00	6.59	0.00	1.59	0.05	0.29	1.92	0.00	0.0	0.0	0.	0.00
105	45.100	29.00	0.0	0.0	0.0	4.69	6.60	0.00	6.60	0.00	1.59	0.04	0.28	1.91	0.00	0.0	0.0	0.	0.00
106	45.000	29.00	0.0	0.0	0.0	4.70	6.60	0.00	6.60	0.00	1.58	0.04	0.28	1.91	0.00	0.0	0.0	0.	0.00
107	44.900	29.00	0.0	0.0	0.0	4.71	6.60	0.00	6.60	0.00	1.58	0.04	0.28	1.91	0.00	0.0	0.0	0.	0.00
108	44.800	29.00	0.0	0.0	0.0	4.71	6.60	0.00	6.60	0.00	1.58	0.04	0.27	1.90	0.00	0.0	0.0	0.	0.00
109	44.700	29.00	0.0	0.0	0.0	4.72	6.61	0.00	6.61	0.00	1.58	0.04	0.27	1.90	0.00	0.0	0.0	0.	0.00
110	44.600	29.00	0.0	0.0	0.0	4.73	6.61	0.00	6.61	0.00	1.58	0.04	0.27	1.89	0.00	0.0	0.0	0.	0.00
111	44.500	29.00	0.0	0.0	0.0	4.74	6.61	0.00	6.61	0.00	1.58	0.04	0.27	1.89	0.00	0.0	0.0	0.	0.00
112	44.400	29.00	0.0	0.0	0.0	4.74	6.61	0.00	6.61	0.00	1.58	0.04	0.26	1.88	0.00	0.0	0.0	0.	0.00
113	44.300	29.00	0.0	0.0	0.0	4.75	6.62	0.00	6.62	0.00	1.57	0.04	0.26	1.88	0.00	0.0	0.0	0.	0.00
114	44.200	29.00	0.0	0.0	0.0	4.76	6.62	0.00	6.62	0.00	1.57	0.04	0.26	1.88	0.00	0.0	0.0	0.	0.00
115	44.100	29.00	0.0	0.0	0.0	4.77	6.62	0.00	6.62	0.00	1.57	0.04	0.26	1.87	0.00	0.0	0.0	0.	0.00
116	44.000	29.00	0.0	0.0	0.0	4.77	6.62	0.00	6.62	0.00	1.57	0.04	0.26	1.87	0.00	0.0	0.0	0.	0.00
117	43.900	29.00	0.0	0.0	0.0	4.78	6.63	0.00	6.63	0.00	1.57	0.04	0.25	1.87	0.00	0.0	0.0	0.	0.00
118	43.800	29.00	0.0	0.0	0.0	4.79	6.63	0.00	6.63	0.00	1.57	0.04	0.25	1.86	0.00	0.0	0.0	0.	0.00
119	43.700	29.00	0.0	0.0	0.0	4.80	6.63	0.00	6.63	0.00	1.57	0.04	0.25	1.86	0.00	0.0	0.0	0.	0.00
120	43.600	29.00	0.0	0.0	0.0	4.81	6.63	0.00	6.63	0.00	1.56	0.04	0.25	1.86	0.00	0.0	0.0	0.	0.00
121	43.500	29.00	0.0	0.0	0.0	4.81	6.63	0.00	6.63	0.00	1.56	0.04	0.24	1.85	0.00	0.0	0.0	0.	0.00
122	43.400	29.00	0.0	0.0	0.0	4.82	6.64	0.00	6.64	0.00	1.56	0.04	0.24	1.85	0.00	0.0	0.0	0.	0.00
123	43.300	29.00	0.0	0.0	0.0	4.83	6.64	0.00	6.64	0.00	1.56	0.04	0.24	1.85	0.00	0.0	0.0	0.	0.00
124	43.200	29.00	0.0	0.0	0.0	4.84	6.64	0.00	6.64	0.00	1.56	0.04	0.24	1.84	0.00	0.0	0.0	0.	0.00
125	43.100	29.00	0.0	0.0	0.0	4.84	6.64	0.00	6.64	0.00	1.56	0.04	0.24	1.84	0.00	0.0	0.0	0.	0.00
229	43.000	29.05	0.0	0.0	0.0	4.34	13.25	0.00	13.25	0.00	1.79	0.05	0.40	2.24	0.00	1.5	0.0	0.	0.00
230	42.900	29.11	0.0	0.0	0.0	3.93	12.30	0.00	12.30	0.00	1.56	0.07	0.57	2.20	0.00	3.1	0.0	0.	0.00
231	42.800	29.16	0.0	0.0	0.0	3.73	12.32	0.00	12.32	0.00	1.55	0.07	0.57	2.19	0.00	4.6	0.0	0.	0.00
232	42.700	29.21	0.0	0.0	0.0	3.55	12.34	0.00	12.34	0.00	1.55	0.07	0.57	2.19	0.00	6.1	0.0	0.	0.00
233	42.600	29.27	0.0	0.0	0.0	3.38	12.36	0.00	12.36	0.00	1.55	0.07	0.57	2.19	0.00	7.7	0.0	0.	0.00
234	42.500	29.32	0.0	0.0	0.0	3.22	12.38	0.00	12.38	0.00	1.55	0.07	0.57	2.19	0.00	9.2	0.0	0.	0.00
235	42.400	29.37	0.0	0.0	0.0	3.08	12.39	0.00	12.39	0.00	1.54	0.07	0.57	2.19	0.00	10.7	0.0	0.	0.00
236	42.300	29.43	0.0	0.0	0.0	2.94	12.41	0.00	12.41	0.00	1.54	0.07	0.57	2.18	0.00	12.3	0.0	0.	0.00
237	42.200	29.48	0.0	0.0	0.0	2.82	12.43	0.00	12.43	0.00	1.54	0.08	0.57	2.18	0.00	13.8	0.0	0.	0.00
238	42.100	29.53	0.0	0.0	0.0	2.70	12.44	0.00	12.44	0.00	1.54	0.08	0.56	2.17	0.00	15.3	0.0	0.	0.00
239	42.000	29.59	0.0	0.0	0.0	2.60	12.46	0.00	12.46	0.00	1.53	0.08	0.56	2.17	0.00	16.9	0.0	0.	0.00
240	41.900	29.64	0.0	0.0	0.0	2.50	12.47	0.00	12.47	0.00	1.53	0.08	0.56	2.16	0.00	18.4	0.0	0.	0.00
241	41.800	29.70	0.0	0.0	0.0	2.42	12.49	0.00	12.49	0.00	1.53	0.08	0.55	2.16	0.00	20.0	0.0	0.	0.00
242	41.700	29.75	0.0	0.0	0.0	2.34	12.50	0.00	12.50	0.00	1.52	0.08	0.55	2.15	0.00	21.5	0.0	0.	0.00
243	41.600	29.80	0.0	0.0	0.0	2.27	12.51	0.00	12.51	0.00	1.52	0.08	0.54	2.15	0.00	23.0	0.0	0.	0.00
244	41.500	29.86	0.0	0.0	0.0	2.22	12.52	0.00	12.52	0.00	1.52	0.08	0.54	2.14	0.00	24.6	0.0	0.	0.00
245	41.400	29.91	0.0	0.0	0.0	2.17	12.54	0.00	12.54	0.00	1.52	0.08	0.53	2.13	0.00	26.1	0.0	0.	0.00
246	41.300	29.96	0.0	0.0	0.0	2.13	12.55	0.00	12.55	0.00	1.51	0.08	0.53	2.12	0.00	27.6	0.0	0.	0.00
247	41.200	30.02	0.0	0.0	0.0	2.10	12.56	0.00	12.56	0.00	1.51	0.08	0.52	2.12	0.00	29.2	0.0	0.	0.00

248	41.100	30.07	0.0	0.0	0.0	2.08	12.57	0.00	12.57	0.00	1.51	0.08	0.51	2.11	0.00	30.7	0.0	0.	0.00
249	41.000	30.12	0.0	0.0	0.0	2.06	12.58	0.00	12.58	0.00	1.51	0.09	0.51	2.10	0.00	32.2	0.0	0.	0.00
250	40.900	30.18	0.0	0.0	0.0	2.06	12.59	0.00	12.59	0.00	1.50	0.09	0.50	2.09	0.00	33.8	0.0	0.	0.00
251	40.800	30.23	0.0	0.0	0.0	2.06	12.60	0.00	12.60	0.00	1.50	0.09	0.49	2.08	0.00	35.3	0.0	0.	0.00
252	40.700	30.28	0.0	0.0	0.0	2.07	12.60	0.00	12.60	0.00	1.50	0.09	0.48	2.07	0.00	36.8	0.0	0.	0.00
253	40.600	30.34	0.0	0.0	0.0	2.09	12.61	0.00	12.61	0.00	1.50	0.09	0.47	2.06	0.00	38.4	0.0	0.	0.00
254	40.500	30.39	0.0	0.0	0.0	2.12	12.62	0.00	12.62	0.00	1.49	0.09	0.46	2.04	0.00	39.9	0.0	0.	0.00
255	40.400	30.44	0.0	0.0	0.0	2.15	12.62	0.00	12.62	0.00	1.49	0.09	0.45	2.03	0.00	41.4	0.0	0.	0.00
256	40.300	30.50	0.0	0.0	0.0	2.19	12.63	0.00	12.63	0.00	1.49	0.09	0.44	2.02	0.00	43.0	0.0	0.	0.00
257	40.200	30.55	0.0	0.0	0.0	2.24	12.64	0.00	12.64	0.00	1.49	0.09	0.43	2.01	0.00	44.5	0.0	0.	0.00
258	40.100	30.60	0.0	0.0	0.0	2.29	12.64	0.00	12.64	0.00	1.48	0.09	0.42	1.99	0.00	46.0	0.0	0.	0.00
259	40.000	30.66	0.0	0.0	0.0	2.35	12.65	0.00	12.65	0.00	1.48	0.09	0.41	1.98	0.00	47.6	0.0	0.	0.00
260	39.900	30.71	0.0	0.0	0.0	2.42	12.65	0.00	12.65	0.00	1.48	0.09	0.40	1.97	0.00	49.1	0.0	0.	0.00
261	39.800	30.77	0.0	0.0	0.0	2.49	12.66	0.00	12.66	0.00	1.47	0.09	0.38	1.95	0.00	50.7	0.0	0.	0.00
262	39.700	30.82	0.0	0.0	0.0	2.57	12.66	0.00	12.66	0.00	1.47	0.09	0.37	1.94	0.00	52.2	0.0	0.	0.00
263	39.600	30.87	0.0	0.0	0.0	2.66	12.66	0.00	12.66	0.00	1.47	0.09	0.36	1.92	0.00	53.7	0.0	0.	0.00
264	39.500	30.93	0.0	0.0	0.0	2.75	12.66	0.00	12.66	0.00	1.47	0.09	0.34	1.90	0.00	55.3	0.0	0.	0.00
265	39.400	30.98	0.0	0.0	0.0	2.85	12.67	0.00	12.67	0.00	1.46	0.09	0.33	1.89	0.00	56.8	0.0	0.	0.00
266	39.300	31.03	0.0	0.0	0.0	2.96	12.67	0.00	12.67	0.00	1.46	0.09	0.31	1.87	0.00	58.3	0.0	0.	0.00
267	39.200	31.09	0.0	0.0	0.0	3.07	12.67	0.00	12.67	0.00	1.46	0.09	0.30	1.85	0.00	59.9	0.0	0.	0.00
268	39.100	31.14	0.0	0.0	0.0	3.19	12.67	0.00	12.67	0.00	1.46	0.09	0.28	1.83	0.00	61.4	0.0	0.	0.00
269	39.000	31.19	0.0	0.0	0.0	3.31	12.67	0.00	12.67	0.00	1.45	0.09	0.27	1.81	0.00	62.9	0.0	0.	0.00
270	38.900	31.25	0.0	0.0	0.0	3.44	12.67	0.00	12.67	0.00	1.45	0.09	0.25	1.79	0.00	64.5	0.0	0.	0.00
271	38.800	31.30	0.0	0.0	0.0	3.57	12.68	0.00	12.68	0.00	1.45	0.09	0.23	1.77	0.00	66.0	0.0	0.	0.00
347	38.700	31.29	0.0	0.0	0.0	3.96	12.58	0.00	12.58	0.00	1.45	0.09	0.20	1.74	0.00	65.1	0.0	0.	0.00
348	38.600	31.28	0.0	0.0	0.0	4.32	12.53	0.00	12.53	0.00	1.44	0.09	0.18	1.71	0.00	64.2	0.0	0.	0.00
349	38.500	31.26	0.0	0.0	0.0	4.66	12.48	0.00	12.48	0.00	1.44	0.09	0.15	1.68	0.00	63.3	0.0	0.	0.00
350	38.400	31.25	0.0	0.0	0.0	4.98	12.44	0.00	12.44	0.00	1.44	0.09	0.12	1.65	0.00	62.4	0.0	0.	0.00
351	38.300	31.24	0.0	0.0	0.0	5.28	12.39	0.00	12.39	0.00	1.43	0.09	0.10	1.62	0.00	61.5	0.0	0.	0.00
352	38.200	31.23	0.0	0.0	0.0	5.56	12.34	0.00	12.34	0.00	1.43	0.09	0.08	1.59	0.00	60.6	0.0	0.	0.00
353	38.100	31.21	0.0	0.0	0.0	5.83	12.30	0.00	12.30	0.00	1.42	0.09	0.05	1.56	0.00	59.7	0.0	0.	0.00
354	38.000	31.20	0.0	0.0	0.0	6.08	12.25	0.00	12.25	0.00	1.42	0.09	0.03	1.54	0.00	58.8	0.0	0.	0.00
355	37.900	31.19	0.0	0.0	0.0	6.31	12.21	0.00	12.21	0.00	1.42	0.09	0.00	1.51	0.00	57.9	0.0	0.	0.00
356	37.800	31.18	0.0	0.0	0.0	6.53	12.17	0.00	12.17	0.00	1.41	0.09	0.00	1.50	0.00	57.0	0.0	0.	0.00
357	37.700	31.16	0.0	0.0	0.0	6.73	12.13	0.00	12.13	0.00	1.41	0.09	0.00	1.49	0.00	56.1	0.0	0.	0.00
358	37.600	31.15	0.0	0.0	0.0	6.92	12.09	0.00	12.09	0.00	1.40	0.09	0.00	1.49	0.00	55.2	0.0	0.	0.00
359	37.500	31.14	0.0	0.0	0.0	7.09	12.05	0.00	12.05	0.00	1.40	0.08	0.00	1.48	0.00	54.2	0.0	0.	0.00
360	37.400	31.13	0.0	0.0	0.0	7.25	12.01	0.00	12.01	0.00	1.40	0.08	0.00	1.48	0.00	53.3	0.0	0.	0.00
361	37.300	31.12	0.0	0.0	0.0	7.40	11.98	0.00	11.98	0.00	1.39	0.08	0.00	1.48	0.00	52.4	0.0	0.	0.00
362	37.200	31.10	0.0	0.0	0.0	7.54	11.94	0.00	11.94	0.00	1.39	0.08	0.00	1.47	0.00	51.5	0.0	0.	0.00
363	37.100	31.09	0.0	0.0	0.0	7.66	11.90	0.00	11.90	0.00	1.38	0.08	0.00	1.47	0.00	50.6	0.0	0.	0.00
364	37.000	31.08	0.0	0.0	0.0	7.77	11.87	0.00	11.87	0.00	1.38	0.08	0.00	1.46	0.00	49.7	0.0	0.	0.00
365	36.900	31.07	0.0	0.0	0.0	7.87	11.84	0.00	11.84	0.00	1.38	0.08	0.00	1.46	0.00	48.8	0.0	0.	0.00
366	36.800	31.05	0.0	0.0	0.0	7.23	10.69	0.00	10.69	0.00	1.39	0.28	0.00	1.68	0.00	47.9	0.0	0.	0.00
367	36.700	31.04	0.0	0.0	0.0	7.24	10.89	0.00	10.89	0.00	1.39	0.29	0.00	1.68	0.00	47.0	0.0	0.	0.00
368	36.600	31.03	0.0	0.0	0.0	7.30	10.88	0.00	10.88	0.00	1.39	0.28	0.00	1.67	0.00	46.1	0.0	0.	0.00
369	36.500	31.02	0.0	0.0	0.0	7.35	10.86	0.00	10.86	0.00	1.38	0.27	0.00	1.65	0.00	45.2	0.0	0.	0.00
370	36.400	31.00	0.0	0.0	0.0	7.39	10.85	0.00	10.85	0.00	1.38	0.26	0.00	1.64	0.00	44.3	0.0	0.	0.00
371	36.300	30.99	0.0	0.0	0.0	7.43	10.84	0.00	10.84	0.00	1.38	0.25	0.00	1.63	0.00	43.4	0.0	0.	0.00
372	36.200	30.98	0.0	0.0	0.0	7.46	10.83	0.00	10.83	0.00	1.37	0.25	0.00	1.62	0.00	42.5	0.0	0.	0.00

373	36.100	30.97	0.0	0.0	0.0	7.48	10.83	0.00	10.83	0.00	1.37	0.24	0.00	1.61	0.00	41.6	0.0	0.	0.00
374	36.000	30.95	0.0	0.0	0.0	7.50	10.82	0.00	10.82	0.00	1.37	0.23	0.00	1.60	0.00	40.7	0.0	0.	0.00
375	35.900	30.94	0.0	0.0	0.0	7.51	10.81	0.00	10.81	0.00	1.36	0.22	0.00	1.59	0.00	39.8	0.0	0.	0.00
376	35.800	30.93	0.0	0.0	0.0	7.52	10.80	0.00	10.80	0.00	1.36	0.22	0.00	1.58	0.00	38.9	0.0	0.	0.00
377	35.700	30.92	0.0	0.0	0.0	7.52	10.79	0.00	10.79	0.00	1.36	0.21	0.00	1.57	0.00	38.0	0.0	0.	0.00
378	35.600	30.91	0.0	0.0	0.0	7.52	10.78	0.00	10.78	0.00	1.35	0.20	0.00	1.56	0.00	37.1	0.0	0.	0.00
379	35.500	30.89	0.0	0.0	0.0	7.51	10.77	0.00	10.77	0.00	1.35	0.20	0.00	1.55	0.00	36.2	0.0	0.	0.00
380	35.400	30.88	0.0	0.0	0.0	7.49	10.77	0.00	10.77	0.00	1.35	0.19	0.00	1.54	0.00	35.3	0.0	0.	0.00
381	35.300	30.87	0.0	0.0	0.0	7.47	10.76	0.00	10.76	0.00	1.34	0.19	0.00	1.53	0.00	34.4	0.0	0.	0.00
382	35.200	30.86	0.0	0.0	0.0	7.44	10.75	0.00	10.75	0.00	1.34	0.18	0.00	1.52	0.00	33.5	0.0	0.	0.00
383	35.100	30.84	0.0	0.0	0.0	7.41	10.75	0.00	10.75	0.00	1.34	0.18	0.00	1.51	0.00	32.5	0.0	0.	0.00
384	35.000	30.83	0.0	0.0	0.0	7.37	10.74	0.00	10.74	0.00	1.33	0.17	0.00	1.51	0.00	31.6	0.0	0.	0.00
385	34.900	30.82	0.0	0.0	0.0	7.33	10.73	0.00	10.73	0.00	1.33	0.17	0.00	1.50	0.00	30.7	0.0	0.	0.00
386	34.800	30.81	0.0	0.0	0.0	7.29	10.73	0.00	10.73	0.00	1.33	0.16	0.00	1.49	0.00	29.8	0.0	0.	0.00
387	34.700	30.79	0.0	0.0	0.0	7.24	10.72	0.00	10.72	0.00	1.32	0.16	0.00	1.48	0.00	28.9	0.0	0.	0.00
388	34.600	30.78	0.0	0.0	0.0	7.18	10.71	0.00	10.71	0.00	1.32	0.16	0.00	1.48	0.00	28.0	0.0	0.	0.00
389	34.500	30.77	0.0	0.0	0.0	7.12	10.71	0.00	10.71	0.00	1.32	0.15	0.00	1.47	0.00	27.1	0.0	0.	0.00
390	34.400	30.76	0.0	0.0	0.0	7.06	10.70	0.00	10.70	0.00	1.31	0.15	0.00	1.46	0.00	26.2	0.0	0.	0.00
391	34.300	30.75	0.0	0.0	0.0	6.99	10.70	0.00	10.70	0.00	1.31	0.15	0.00	1.46	0.00	25.3	0.0	0.	0.00
392	34.200	30.73	0.0	0.0	0.0	6.92	10.69	0.00	10.69	0.00	1.31	0.14	0.00	1.45	0.00	24.4	0.0	0.	0.00
393	34.100	30.72	0.0	0.0	0.0	6.84	10.69	0.00	10.69	0.00	1.31	0.14	0.00	1.44	0.00	23.5	0.0	0.	0.00
394	34.000	30.71	0.0	0.0	0.0	6.76	10.68	0.00	10.68	0.00	1.30	0.14	0.00	1.44	0.00	22.6	0.0	0.	0.00
395	33.900	30.70	0.0	0.0	0.0	6.68	10.68	0.00	10.68	0.00	1.30	0.13	0.00	1.43	0.00	21.7	0.0	0.	0.00
396	33.800	30.68	0.0	0.0	0.0	6.59	10.68	0.00	10.68	0.00	1.30	0.13	0.00	1.43	0.00	20.8	0.0	0.	0.00
397	33.700	30.67	0.0	0.0	0.0	6.50	10.67	0.00	10.67	0.00	1.29	0.13	0.00	1.42	0.00	19.9	0.0	0.	0.00
398	33.600	30.66	0.0	0.0	0.0	6.40	10.67	0.00	10.67	0.00	1.29	0.13	0.00	1.42	0.00	19.0	0.0	0.	0.00
399	33.500	30.65	0.0	0.0	0.0	6.31	10.66	0.00	10.66	0.00	1.29	0.12	0.00	1.41	0.00	18.1	0.0	0.	0.00
400	33.400	30.63	0.0	0.0	0.0	6.20	10.66	0.00	10.66	0.00	1.28	0.12	0.00	1.41	0.00	17.2	0.0	0.	0.00
401	33.300	30.62	0.0	0.0	0.0	6.10	10.66	0.00	10.66	0.00	1.28	0.12	0.00	1.40	0.00	16.3	0.0	0.	0.00
402	33.200	30.61	0.0	0.0	0.0	5.99	10.65	0.00	10.65	0.00	1.28	0.12	0.00	1.40	0.00	15.4	0.0	0.	0.00
403	33.100	30.60	0.0	0.0	0.0	5.88	10.65	0.00	10.65	0.00	1.27	0.12	0.00	1.39	0.00	14.5	0.0	0.	0.00
404	33.000	30.58	0.0	0.0	0.0	5.76	10.65	0.00	10.65	0.00	1.27	0.11	0.00	1.39	0.00	13.6	0.0	0.	0.00
405	32.900	30.57	0.0	0.0	0.0	5.64	10.64	0.00	10.64	0.00	1.27	0.11	0.00	1.38	0.00	12.7	0.0	0.	0.00
406	32.800	30.56	0.0	0.0	0.0	5.52	10.64	0.00	10.64	0.00	1.27	0.11	0.00	1.38	0.00	11.8	0.0	0.	0.00
407	32.700	30.55	0.0	0.0	0.0	5.40	10.64	0.00	10.64	0.00	1.26	0.11	0.00	1.37	0.00	10.8	0.0	0.	0.00
408	32.600	30.54	0.0	0.0	0.0	5.27	10.64	0.00	10.64	0.00	1.26	0.11	0.00	1.37	0.00	9.9	0.0	0.	0.00
409	32.500	30.52	0.0	0.0	0.0	5.14	10.63	0.00	10.63	0.00	1.26	0.11	0.00	1.36	0.00	9.0	0.0	0.	0.00
410	32.400	30.51	0.0	0.0	0.0	5.01	10.63	0.00	10.63	0.00	1.25	0.10	0.00	1.36	0.00	8.1	0.0	0.	0.00
411	32.300	30.50	0.0	0.0	0.0	4.88	10.63	0.00	10.63	0.00	1.25	0.10	0.00	1.35	0.00	7.2	0.0	0.	0.00
412	32.200	30.49	0.0	0.0	0.0	4.74	10.63	0.00	10.63	0.00	1.25	0.10	0.00	1.35	0.00	6.3	0.0	0.	0.00
413	32.100	30.47	0.0	0.0	0.0	4.60	10.63	0.00	10.63	0.00	1.24	0.10	0.00	1.35	0.00	5.4	0.0	0.	0.00
414	32.000	30.46	0.0	0.0	0.0	4.46	10.63	0.00	10.63	0.00	1.24	0.10	0.00	1.34	0.00	4.5	0.0	0.	0.00
415	31.900	30.45	0.0	0.0	0.0	4.32	10.62	0.00	10.62	0.00	1.24	0.10	0.00	1.34	0.00	3.6	0.0	0.	0.00
416	31.800	30.44	0.0	0.0	0.0	4.17	10.62	0.00	10.62	0.00	1.24	0.10	0.00	1.33	0.00	2.7	0.0	0.	0.00
417	31.700	30.42	0.0	0.0	0.0	4.02	10.62	0.00	10.62	0.00	1.23	0.10	0.00	1.33	0.00	1.8	0.0	0.	0.00
418	31.600	30.41	0.0	0.0	0.0	3.87	10.62	0.00	10.62	0.00	1.23	0.10	0.00	1.33	0.00	0.9	0.0	0.	0.00
419	31.500	30.40	0.0	0.0	0.0	3.72	10.62	0.00	10.62	0.00	1.23	0.10	0.00	1.32	0.00	0.0	0.0	0.	0.00
554	31.400	30.39	0.0	0.0	0.0	5.08	3.28	0.00	3.28	0.00	1.20	0.08	1.48	2.75	0.00	0.0	0.0	0.	0.00
555	31.300	30.39	0.0	0.0	0.0	5.05	3.27	0.00	3.27	0.00	1.20	0.08	1.48	2.75	0.00	0.0	0.0	0.	0.00
556	31.200	30.38	0.0	0.0	0.0	5.02	3.26	0.00	3.26	0.00	1.20	0.08	1.48	2.76	0.00	0.0	0.0	0.	0.00

557	31.100	30.37	0.0	0.0	0.0	4.99	3.26	0.00	3.26	0.00	1.21	0.08	1.48	2.76	0.00	0.0	0.0	0.	0.00
558	31.000	30.36	0.0	0.0	0.0	4.97	3.25	0.00	3.25	0.00	1.21	0.08	1.48	2.77	0.00	0.0	0.0	0.	0.00
559	30.900	30.36	0.0	0.0	0.0	4.94	3.24	0.00	3.24	0.00	1.22	0.08	1.48	2.77	0.00	0.0	0.0	0.	0.00
560	30.800	30.35	0.0	0.0	0.0	4.91	3.23	0.00	3.23	0.00	1.22	0.08	1.48	2.78	0.00	0.0	0.0	0.	0.00
561	30.700	30.34	0.0	0.0	0.0	4.89	3.22	0.00	3.22	0.00	1.22	0.08	1.48	2.78	0.00	0.0	0.0	0.	0.00
562	30.600	30.34	0.0	0.0	0.0	4.86	3.22	0.00	3.22	0.00	1.23	0.08	1.48	2.79	0.00	0.0	0.0	0.	0.00
563	30.500	30.33	0.0	0.0	0.0	4.84	3.21	0.00	3.21	0.00	1.23	0.08	1.48	2.79	0.00	0.0	0.0	0.	0.00
564	30.400	30.32	0.0	0.0	0.0	4.81	3.20	0.00	3.20	0.00	1.24	0.08	1.48	2.79	0.00	0.0	0.0	0.	0.00
565	30.300	30.32	0.0	0.0	0.0	4.79	3.19	0.00	3.19	0.00	1.24	0.08	1.49	2.80	0.00	0.0	0.0	0.	0.00
566	30.200	30.31	0.0	0.0	0.0	4.76	3.18	0.00	3.18	0.00	1.24	0.08	1.49	2.80	0.00	0.0	0.0	0.	0.00
567	30.100	30.30	0.0	0.0	0.0	4.74	3.18	0.00	3.18	0.00	1.25	0.08	1.49	2.81	0.00	0.0	0.0	0.	0.00
568	30.000	30.29	0.0	0.0	0.0	4.71	3.17	0.00	3.17	0.00	1.25	0.08	1.49	2.81	0.00	0.0	0.0	0.	0.00
569	29.900	30.29	0.0	0.0	0.0	4.69	3.16	0.00	3.16	0.00	1.26	0.08	1.49	2.82	0.00	0.0	0.0	0.	0.00
570	29.800	30.28	0.0	0.0	0.0	4.67	3.15	0.00	3.15	0.00	1.26	0.08	1.49	2.82	0.00	0.0	0.0	0.	0.00
571	29.700	30.27	0.0	0.0	0.0	4.64	3.15	0.00	3.15	0.00	1.26	0.08	1.49	2.83	0.00	0.0	0.0	0.	0.00
572	29.600	30.27	0.0	0.0	0.0	4.62	3.14	0.00	3.14	0.00	1.27	0.08	1.49	2.83	0.00	0.0	0.0	0.	0.00
573	29.500	30.26	0.0	0.0	0.0	4.60	3.13	0.00	3.13	0.00	1.27	0.08	1.49	2.84	0.00	0.0	0.0	0.	0.00
574	29.400	30.25	0.0	0.0	0.0	4.58	3.12	0.00	3.12	0.00	1.28	0.08	1.49	2.84	0.00	0.0	0.0	0.	0.00
575	29.300	30.24	0.0	0.0	0.0	4.55	3.12	0.00	3.12	0.00	1.28	0.08	1.49	2.85	0.00	0.0	0.0	0.	0.00
576	29.200	30.24	0.0	0.0	0.0	4.53	3.11	0.00	3.11	0.00	1.28	0.08	1.50	2.85	0.00	0.0	0.0	0.	0.00
577	29.100	30.23	0.0	0.0	0.0	4.51	3.10	0.00	3.10	0.00	1.29	0.08	1.50	2.86	0.00	0.0	0.0	0.	0.00
578	29.000	30.22	0.0	0.0	0.0	4.49	3.09	0.00	3.09	0.00	1.29	0.08	1.50	2.86	0.00	0.0	0.0	0.	0.00
579	28.900	30.22	0.0	0.0	0.0	4.47	3.09	0.00	3.09	0.00	1.29	0.08	1.50	2.87	0.00	0.0	0.0	0.	0.00
580	28.800	30.21	0.0	0.0	0.0	4.45	3.08	0.00	3.08	0.00	1.30	0.08	1.50	2.87	0.00	0.0	0.0	0.	0.00
581	28.700	30.20	0.0	0.0	0.0	4.43	3.07	0.00	3.07	0.00	1.30	0.08	1.50	2.88	0.00	0.0	0.0	0.	0.00
582	28.600	30.20	0.0	0.0	0.0	4.40	3.07	0.00	3.07	0.00	1.31	0.08	1.50	2.88	0.00	0.0	0.0	0.	0.00
583	28.500	30.19	0.0	0.0	0.0	4.38	3.06	0.00	3.06	0.00	1.31	0.08	1.50	2.89	0.00	0.0	0.0	0.	0.00
584	28.400	30.18	0.0	0.0	0.0	4.36	3.05	0.00	3.05	0.00	1.31	0.08	1.50	2.89	0.00	0.0	0.0	0.	0.00
585	28.300	30.17	0.0	0.0	0.0	4.34	3.05	0.00	3.05	0.00	1.32	0.08	1.50	2.90	0.00	0.0	0.0	0.	0.00
586	28.200	30.17	0.0	0.0	0.0	4.33	3.04	0.00	3.04	0.00	1.32	0.08	1.50	2.90	0.00	0.0	0.0	0.	0.00
587	28.100	30.16	0.0	0.0	0.0	4.31	3.03	0.00	3.03	0.00	1.33	0.08	1.50	2.91	0.00	0.0	0.0	0.	0.00
588	28.000	30.15	0.0	0.0	0.0	4.29	3.03	0.00	3.03	0.00	1.33	0.08	1.51	2.91	0.00	0.0	0.0	0.	0.00
589	27.900	30.15	0.0	0.0	0.0	4.27	3.02	0.00	3.02	0.00	1.33	0.08	1.51	2.92	0.00	0.0	0.0	0.	0.00
590	27.800	30.14	0.0	0.0	0.0	4.25	3.01	0.00	3.01	0.00	1.34	0.08	1.51	2.92	0.00	0.0	0.0	0.	0.00
591	27.700	30.13	0.0	0.0	0.0	4.23	3.01	0.00	3.01	0.00	1.34	0.08	1.51	2.93	0.00	0.0	0.0	0.	0.00
592	27.600	30.12	0.0	0.0	0.0	4.21	3.00	0.00	3.00	0.00	1.35	0.08	1.51	2.93	0.00	0.0	0.0	0.	0.00
593	27.500	30.12	0.0	0.0	0.0	4.19	2.99	0.00	2.99	0.00	1.35	0.08	1.51	2.94	0.00	0.0	0.0	0.	0.00
594	27.400	30.11	0.0	0.0	0.0	4.18	2.99	0.00	2.99	0.00	1.35	0.08	1.51	2.94	0.00	0.0	0.0	0.	0.00
595	27.300	30.10	0.0	0.0	0.0	4.16	2.98	0.00	2.98	0.00	1.36	0.08	1.51	2.95	0.00	0.0	0.0	0.	0.00
596	27.200	30.10	0.0	0.0	0.0	4.14	2.97	0.00	2.97	0.00	1.36	0.08	1.51	2.95	0.00	0.0	0.0	0.	0.00
597	27.100	30.09	0.0	0.0	0.0	4.12	2.97	0.00	2.97	0.00	1.37	0.08	1.51	2.96	0.00	0.0	0.0	0.	0.00
598	27.000	30.08	0.0	0.0	0.0	4.11	2.96	0.00	2.96	0.00	1.37	0.08	1.51	2.96	0.00	0.0	0.0	0.	0.00
599	26.900	30.08	0.0	0.0	0.0	4.09	2.95	0.00	2.95	0.00	1.37	0.08	1.52	2.97	0.00	0.0	0.0	0.	0.00
600	26.800	30.07	0.0	0.0	0.0	4.07	2.95	0.00	2.95	0.00	1.38	0.08	1.52	2.97	0.00	0.0	0.0	0.	0.00
601	26.700	30.06	0.0	0.0	0.0	4.06	2.94	0.00	2.94	0.00	1.38	0.08	1.52	2.98	0.00	0.0	0.0	0.	0.00
602	26.600	30.05	0.0	0.0	0.0	4.04	2.94	0.00	2.94	0.00	1.39	0.08	1.52	2.98	0.00	0.0	0.0	0.	0.00
603	26.500	30.05	0.0	0.0	0.0	4.02	2.93	0.00	2.93	0.00	1.39	0.08	1.52	2.98	0.00	0.0	0.0	0.	0.00
604	26.400	30.04	0.0	0.0	0.0	4.01	2.92	0.00	2.92	0.00	1.39	0.08	1.52	2.99	0.00	0.0	0.0	0.	0.00
605	26.300	30.03	0.0	0.0	0.0	3.99	2.92	0.00	2.92	0.00	1.40	0.08	1.52	2.99	0.00	0.0	0.0	0.	0.00
606	26.200	30.03	0.0	0.0	0.0	3.98	2.91	0.00	2.91	0.00	1.40	0.08	1.52	3.00	0.00	0.0	0.0	0.	0.00

607	26.100	30.02	0.0	0.0	0.0	3.96	2.91	0.00	2.91	0.00	1.40	0.08	1.52	3.00	0.00	0.0	0.0	0.	0.00
608	26.000	30.01	0.0	0.0	0.0	3.95	2.90	0.00	2.90	0.00	1.41	0.08	1.52	3.01	0.00	0.0	0.0	0.	0.00
609	25.900	30.01	0.0	0.0	0.0	3.93	2.89	0.00	2.89	0.00	1.41	0.08	1.52	3.01	0.00	0.0	0.0	0.	0.00
610	25.800	30.00	0.0	0.0	0.0	3.92	2.89	0.00	2.89	0.00	1.42	0.08	1.52	3.02	0.00	0.0	0.0	0.	0.00
611	25.700	29.99	0.0	0.0	0.0	3.90	2.88	0.00	2.88	0.00	1.42	0.08	1.53	3.02	0.00	0.0	0.0	0.	0.00
612	25.600	29.98	0.0	0.0	0.0	3.89	2.88	0.00	2.88	0.00	1.42	0.08	1.53	3.03	0.00	0.0	0.0	0.	0.00
613	25.500	29.98	0.0	0.0	0.0	3.87	2.87	0.00	2.87	0.00	1.43	0.08	1.53	3.03	0.00	0.0	0.0	0.	0.00
614	25.400	29.97	0.0	0.0	0.0	3.86	2.87	0.00	2.87	0.00	1.43	0.08	1.53	3.04	0.00	0.0	0.0	0.	0.00
615	25.300	29.96	0.0	0.0	0.0	3.85	2.86	0.00	2.86	0.00	1.44	0.08	1.53	3.04	0.00	0.0	0.0	0.	0.00
616	25.200	29.96	0.0	0.0	0.0	3.83	2.85	0.00	2.85	0.00	1.44	0.08	1.53	3.05	0.00	0.0	0.0	0.	0.00
617	25.100	29.95	0.0	0.0	0.0	3.82	2.85	0.00	2.85	0.00	1.44	0.08	1.53	3.05	0.00	0.0	0.0	0.	0.00
618	25.000	29.94	0.0	0.0	0.0	3.80	2.84	0.00	2.84	0.00	1.45	0.08	1.53	3.06	0.00	0.0	0.0	0.	0.00
619	24.900	29.93	0.0	0.0	0.0	3.79	2.84	0.00	2.84	0.00	1.45	0.08	1.53	3.06	0.00	0.0	0.0	0.	0.00
620	24.800	29.93	0.0	0.0	0.0	3.78	2.83	0.00	2.83	0.00	1.45	0.08	1.53	3.07	0.00	0.0	0.0	0.	0.00
621	24.700	29.92	0.0	0.0	0.0	3.76	2.83	0.00	2.83	0.00	1.46	0.08	1.53	3.07	0.00	0.0	0.0	0.	0.00
622	24.600	29.91	0.0	0.0	0.0	3.75	2.82	0.00	2.82	0.00	1.46	0.08	1.53	3.08	0.00	0.0	0.0	0.	0.00
623	24.500	29.91	0.0	0.0	0.0	3.74	2.82	0.00	2.82	0.00	1.47	0.08	1.54	3.08	0.00	0.0	0.0	0.	0.00
624	24.400	29.90	0.0	0.0	0.0	3.73	2.81	0.00	2.81	0.00	1.47	0.08	1.54	3.09	0.00	0.0	0.0	0.	0.00
625	24.300	29.89	0.0	0.0	0.0	3.71	2.81	0.00	2.81	0.00	1.47	0.08	1.54	3.09	0.00	0.0	0.0	0.	0.00
626	24.200	29.89	0.0	0.0	0.0	3.70	2.80	0.00	2.80	0.00	1.48	0.08	1.54	3.10	0.00	0.0	0.0	0.	0.00
627	24.100	29.88	0.0	0.0	0.0	3.69	2.80	0.00	2.80	0.00	1.48	0.08	1.54	3.10	0.00	0.0	0.0	0.	0.00
628	24.000	29.87	0.0	0.0	0.0	3.68	2.79	0.00	2.79	0.00	1.49	0.08	1.54	3.11	0.00	0.0	0.0	0.	0.00
629	23.900	29.86	0.0	0.0	0.0	3.67	2.79	0.00	2.79	0.00	1.49	0.08	1.54	3.11	0.00	0.0	0.0	0.	0.00
630	23.800	29.86	0.0	0.0	0.0	3.65	2.78	0.00	2.78	0.00	1.49	0.08	1.54	3.12	0.00	0.0	0.0	0.	0.00
631	23.700	29.85	0.0	0.0	0.0	3.64	2.78	0.00	2.78	0.00	1.50	0.08	1.54	3.12	0.00	0.0	0.0	0.	0.00
632	23.600	29.84	0.0	0.0	0.0	3.63	2.77	0.00	2.77	0.00	1.50	0.08	1.54	3.13	0.00	0.0	0.0	0.	0.00
633	23.500	29.84	0.0	0.0	0.0	3.62	2.77	0.00	2.77	0.00	1.50	0.08	1.54	3.13	0.00	0.0	0.0	0.	0.00
634	23.400	29.83	0.0	0.0	0.0	3.61	2.76	0.00	2.76	0.00	1.51	0.08	1.55	3.14	0.00	0.0	0.0	0.	0.00
635	23.300	29.82	0.0	0.0	0.0	3.60	2.76	0.00	2.76	0.00	1.51	0.08	1.55	3.14	0.00	0.0	0.0	0.	0.00
636	23.200	29.81	0.0	0.0	0.0	3.59	2.75	0.00	2.75	0.00	1.52	0.08	1.55	3.15	0.00	0.0	0.0	0.	0.00
637	23.100	29.81	0.0	0.0	0.0	3.58	2.75	0.00	2.75	0.00	1.52	0.08	1.55	3.15	0.00	0.0	0.0	0.	0.00
638	23.000	29.80	0.0	0.0	0.0	3.56	2.74	0.00	2.74	0.00	1.52	0.08	1.55	3.16	0.00	0.0	0.0	0.	0.00
639	22.900	29.79	0.0	0.0	0.0	3.55	2.74	0.00	2.74	0.00	1.53	0.08	1.55	3.16	0.00	0.0	0.0	0.	0.00
640	22.800	29.79	0.0	0.0	0.0	3.54	2.73	0.00	2.73	0.00	1.53	0.08	1.55	3.16	0.00	0.0	0.0	0.	0.00
641	22.700	29.78	0.0	0.0	0.0	3.53	2.73	0.00	2.73	0.00	1.53	0.08	1.55	3.17	0.00	0.0	0.0	0.	0.00
642	22.600	29.77	0.0	0.0	0.0	3.52	2.72	0.00	2.72	0.00	1.54	0.08	1.55	3.17	0.00	0.0	0.0	0.	0.00
643	22.500	29.77	0.0	0.0	0.0	3.51	2.72	0.00	2.72	0.00	1.54	0.08	1.55	3.18	0.00	0.0	0.0	0.	0.00
644	22.400	29.76	0.0	0.0	0.0	3.50	2.71	0.00	2.71	0.00	1.55	0.08	1.55	3.18	0.00	0.0	0.0	0.	0.00
645	22.300	29.75	0.0	0.0	0.0	3.49	2.71	0.00	2.71	0.00	1.55	0.08	1.55	3.19	0.00	0.0	0.0	0.	0.00
646	22.200	29.74	0.0	0.0	0.0	3.48	2.70	0.00	2.70	0.00	1.55	0.08	1.56	3.19	0.00	0.0	0.0	0.	0.00
647	22.100	29.74	0.0	0.0	0.0	3.47	2.70	0.00	2.70	0.00	1.56	0.08	1.56	3.20	0.00	0.0	0.0	0.	0.00
648	22.000	29.73	0.0	0.0	0.0	3.47	2.70	0.00	2.70	0.00	1.56	0.09	1.56	3.20	0.00	0.0	0.0	0.	0.00
649	21.900	29.72	0.0	0.0	0.0	3.46	2.69	0.00	2.69	0.00	1.57	0.09	1.56	3.21	0.00	0.0	0.0	0.	0.00
650	21.800	29.72	0.0	0.0	0.0	3.45	2.69	0.00	2.69	0.00	1.57	0.09	1.56	3.21	0.00	0.0	0.0	0.	0.00
651	21.700	29.71	0.0	0.0	0.0	3.44	2.68	0.00	2.68	0.00	1.57	0.09	1.56	3.22	0.00	0.0	0.0	0.	0.00
652	21.600	29.70	0.0	0.0	0.0	3.43	2.68	0.00	2.68	0.00	1.58	0.09	1.56	3.22	0.00	0.0	0.0	0.	0.00
653	21.500	29.69	0.0	0.0	0.0	3.42	2.67	0.00	2.67	0.00	1.58	0.09	1.56	3.23	0.00	0.0	0.0	0.	0.00
654	21.400	29.69	0.0	0.0	0.0	3.41	2.67	0.00	2.67	0.00	1.58	0.09	1.56	3.23	0.00	0.0	0.0	0.	0.00
655	21.300	29.68	0.0	0.0	0.0	3.40	2.66	0.00	2.66	0.00	1.59	0.09	1.56	3.24	0.00	0.0	0.0	0.	0.00
656	21.200	29.67	0.0	0.0	0.0	3.39	2.66	0.00	2.66	0.00	1.59	0.09	1.56	3.24	0.00	0.0	0.0	0.	0.00

657	21.100	29.67	0.0	0.0	0.0	3.39	2.66	0.00	2.66	0.00	1.60	0.09	1.57	3.25	0.00	0.0	0.0	0.	0.00
658	21.000	29.66	0.0	0.0	0.0	3.38	2.65	0.00	2.65	0.00	1.60	0.09	1.57	3.25	0.00	0.0	0.0	0.	0.00
659	20.900	29.65	0.0	0.0	0.0	3.37	2.65	0.00	2.65	0.00	1.60	0.09	1.57	3.26	0.00	0.0	0.0	0.	0.00
660	20.800	29.65	0.0	0.0	0.0	3.36	2.64	0.00	2.64	0.00	1.61	0.09	1.57	3.26	0.00	0.0	0.0	0.	0.00
661	20.700	29.64	0.0	0.0	0.0	3.35	2.64	0.00	2.64	0.00	1.61	0.09	1.57	3.27	0.00	0.0	0.0	0.	0.00
662	20.600	29.63	0.0	0.0	0.0	3.34	2.64	0.00	2.64	0.00	1.61	0.09	1.57	3.27	0.00	0.0	0.0	0.	0.00
663	20.500	29.62	0.0	0.0	0.0	3.34	2.63	0.00	2.63	0.00	1.62	0.09	1.57	3.28	0.00	0.0	0.0	0.	0.00
664	20.400	29.62	0.0	0.0	0.0	3.33	2.63	0.00	2.63	0.00	1.62	0.09	1.57	3.28	0.00	0.0	0.0	0.	0.00
665	20.300	29.61	0.0	0.0	0.0	3.32	2.62	0.00	2.62	0.00	1.63	0.09	1.57	3.29	0.00	0.0	0.0	0.	0.00
666	20.200	29.60	0.0	0.0	0.0	3.32	2.63	0.00	2.63	0.00	1.63	0.09	1.58	3.30	0.00	0.0	0.0	0.	0.00
667	20.100	29.60	0.0	0.0	0.0	3.31	2.62	0.00	2.62	0.00	1.63	0.09	1.58	3.30	0.00	0.0	0.0	0.	0.00
668	20.000	29.59	0.0	0.0	0.0	3.30	2.62	0.00	2.62	0.00	1.64	0.09	1.58	3.31	0.00	0.0	0.0	0.	0.00
669	19.900	29.58	0.0	0.0	0.0	3.29	2.61	0.00	2.61	0.00	1.64	0.09	1.58	3.31	0.00	0.0	0.0	0.	0.00
670	19.800	29.57	0.0	0.0	0.0	3.29	2.61	0.00	2.61	0.00	1.64	0.09	1.58	3.32	0.00	0.0	0.0	0.	0.00
671	19.700	29.57	0.0	0.0	0.0	3.28	2.61	0.00	2.61	0.00	1.65	0.09	1.58	3.32	0.00	0.0	0.0	0.	0.00
672	19.600	29.56	0.0	0.0	0.0	3.27	2.60	0.00	2.60	0.00	1.65	0.09	1.58	3.33	0.00	0.0	0.0	0.	0.00
673	19.500	29.55	0.0	0.0	0.0	3.26	2.60	0.00	2.60	0.00	1.65	0.09	1.58	3.33	0.00	0.0	0.0	0.	0.00
674	19.400	29.55	0.0	0.0	0.0	3.26	2.60	0.00	2.60	0.00	1.66	0.09	1.59	3.34	0.00	0.0	0.0	0.	0.00
675	19.300	29.54	0.0	0.0	0.0	3.25	2.59	0.00	2.59	0.00	1.66	0.09	1.59	3.34	0.00	0.0	0.0	0.	0.00
676	19.200	29.53	0.0	0.0	0.0	3.24	2.59	0.00	2.59	0.00	1.67	0.09	1.59	3.34	0.00	0.0	0.0	0.	0.00
677	19.100	29.53	0.0	0.0	0.0	3.24	2.58	0.00	2.58	0.00	1.67	0.09	1.59	3.35	0.00	0.0	0.0	0.	0.00
678	19.000	29.52	0.0	0.0	0.0	3.07	2.70	0.00	2.70	0.00	1.60	0.08	1.38	3.07	0.00	0.0	0.0	0.	0.00
679	18.900	29.51	0.0	0.0	0.0	3.07	2.70	0.00	2.70	0.00	1.60	0.08	1.38	3.07	0.00	0.0	0.0	0.	0.00
680	18.800	29.50	0.0	0.0	0.0	3.06	2.69	0.00	2.69	0.00	1.61	0.09	1.38	3.08	0.00	0.0	0.0	0.	0.00
681	18.700	29.50	0.0	0.0	0.0	3.06	2.69	0.00	2.69	0.00	1.61	0.09	1.39	3.08	0.00	0.0	0.0	0.	0.00
682	18.600	29.49	0.0	0.0	0.0	3.05	2.68	0.00	2.68	0.00	1.61	0.09	1.39	3.08	0.00	0.0	0.0	0.	0.00
683	18.500	29.48	0.0	0.0	0.0	3.05	2.68	0.00	2.68	0.00	1.62	0.09	1.39	3.09	0.00	0.0	0.0	0.	0.00
684	18.400	29.48	0.0	0.0	0.0	3.05	2.68	0.00	2.68	0.00	1.62	0.09	1.39	3.09	0.00	0.0	0.0	0.	0.00
685	18.300	29.47	0.0	0.0	0.0	3.04	2.67	0.00	2.67	0.00	1.62	0.09	1.39	3.10	0.00	0.0	0.0	0.	0.00
686	18.200	29.46	0.0	0.0	0.0	3.04	2.67	0.00	2.67	0.00	1.63	0.09	1.39	3.10	0.00	0.0	0.0	0.	0.00
687	18.100	29.46	0.0	0.0	0.0	3.03	2.67	0.00	2.67	0.00	1.63	0.09	1.39	3.10	0.00	0.0	0.0	0.	0.00
688	18.000	29.45	0.0	0.0	0.0	3.03	2.66	0.00	2.66	0.00	1.63	0.09	1.39	3.11	0.00	0.0	0.0	0.	0.00
689	17.900	29.44	0.0	0.0	0.0	3.02	2.66	0.00	2.66	0.00	1.63	0.09	1.39	3.11	0.00	0.0	0.0	0.	0.00
690	17.800	29.43	0.0	0.0	0.0	3.02	2.66	0.00	2.66	0.00	1.64	0.09	1.39	3.12	0.00	0.0	0.0	0.	0.00
691	17.700	29.43	0.0	0.0	0.0	3.02	2.65	0.00	2.65	0.00	1.64	0.09	1.39	3.12	0.00	0.0	0.0	0.	0.00
692	17.600	29.42	0.0	0.0	0.0	3.01	2.65	0.00	2.65	0.00	1.64	0.09	1.39	3.13	0.00	0.0	0.0	0.	0.00
693	17.500	29.41	0.0	0.0	0.0	3.01	2.65	0.00	2.65	0.00	1.65	0.09	1.39	3.13	0.00	0.0	0.0	0.	0.00
694	17.400	29.41	0.0	0.0	0.0	3.00	2.64	0.00	2.64	0.00	1.65	0.09	1.39	3.13	0.00	0.0	0.0	0.	0.00
695	17.300	29.40	0.0	0.0	0.0	3.00	2.64	0.00	2.64	0.00	1.65	0.09	1.40	3.14	0.00	0.0	0.0	0.	0.00
696	17.200	29.39	0.0	0.0	0.0	3.00	2.64	0.00	2.64	0.00	1.66	0.09	1.40	3.14	0.00	0.0	0.0	0.	0.00
697	17.100	29.38	0.0	0.0	0.0	2.99	2.63	0.00	2.63	0.00	1.66	0.09	1.40	3.15	0.00	0.0	0.0	0.	0.00
698	17.000	29.38	0.0	0.0	0.0	2.99	2.63	0.00	2.63	0.00	1.66	0.09	1.40	3.15	0.00	0.0	0.0	0.	0.00
699	16.900	29.37	0.0	0.0	0.0	2.99	2.63	0.00	2.63	0.00	1.67	0.09	1.40	3.16	0.00	0.0	0.0	0.	0.00
700	16.800	29.36	0.0	0.0	0.0	2.98	2.62	0.00	2.62	0.00	1.67	0.09	1.40	3.16	0.00	0.0	0.0	0.	0.00
701	16.700	29.36	0.0	0.0	0.0	2.98	2.62	0.00	2.62	0.00	1.67	0.09	1.40	3.16	0.00	0.0	0.0	0.	0.00
702	16.600	29.35	0.0	0.0	0.0	2.98	2.62	0.00	2.62	0.00	1.68	0.09	1.40	3.17	0.00	0.0	0.0	0.	0.00
703	16.500	29.34	0.0	0.0	0.0	2.97	2.61	0.00	2.61	0.00	1.68	0.09	1.40	3.17	0.00	0.0	0.0	0.	0.00
704	16.400	29.34	0.0	0.0	0.0	2.97	2.61	0.00	2.61	0.00	1.68	0.09	1.40	3.18	0.00	0.0	0.0	0.	0.00
705	16.300	29.33	0.0	0.0	0.0	2.97	2.61	0.00	2.61	0.00	1.69	0.09	1.40	3.18	0.00	0.0	0.0	0.	0.00
706	16.200	29.32	0.0	0.0	0.0	2.96	2.60	0.00	2.60	0.00	1.69	0.09	1.40	3.19	0.00	0.0	0.0	0.	0.00

707	16.100	29.31	0.0	0.0	0.0	2.96	2.60	0.00	2.60	0.00	1.69	0.09	1.40	3.19	0.00	0.0	0.0	0.	0.00
708	16.000	29.31	0.0	0.0	0.0	2.96	2.60	0.00	2.60	0.00	1.70	0.09	1.41	3.19	0.00	0.0	0.0	0.	0.00
709	15.900	29.30	0.0	0.0	0.0	2.95	2.59	0.00	2.59	0.00	1.70	0.09	1.41	3.20	0.00	0.0	0.0	0.	0.00
829	15.800	29.32	0.0	0.0	0.0	2.91	4.26	0.00	4.26	0.00	1.68	0.10	1.40	3.18	0.00	0.0	0.0	0.	0.00
830	15.700	29.33	0.0	0.0	0.0	2.89	4.23	0.00	4.23	0.00	1.68	0.10	1.41	3.18	0.00	0.0	0.0	0.	0.00
831	15.600	29.35	0.0	0.0	0.0	2.88	4.19	0.00	4.19	0.00	1.68	0.10	1.41	3.18	0.00	0.0	0.0	0.	0.00
832	15.500	29.36	0.0	0.0	0.0	2.86	4.16	0.00	4.16	0.00	1.68	0.10	1.41	3.19	0.00	0.0	0.0	0.	0.00
833	15.400	29.38	0.0	0.0	0.0	2.85	4.12	0.00	4.12	0.00	1.68	0.10	1.41	3.19	0.00	0.0	0.0	0.	0.00
834	15.300	29.40	0.0	0.0	0.0	2.83	4.09	0.00	4.09	0.00	1.68	0.10	1.41	3.19	0.00	0.0	0.0	0.	0.00
835	15.200	29.41	0.0	0.0	0.0	2.82	4.06	0.00	4.06	0.00	1.68	0.10	1.41	3.19	0.00	0.0	0.0	0.	0.00
836	15.100	29.43	0.0	0.0	0.0	2.81	4.03	0.00	4.03	0.00	1.69	0.10	1.41	3.19	0.00	0.0	0.0	0.	0.00
837	15.000	29.44	0.0	0.0	0.0	2.79	3.99	0.00	3.99	0.00	1.69	0.10	1.41	3.20	0.00	0.0	0.0	0.	0.00
838	14.900	29.46	0.0	0.0	0.0	2.78	3.96	0.00	3.96	0.00	1.69	0.10	1.41	3.20	0.00	0.0	0.0	0.	0.00
839	14.800	29.48	0.0	0.0	0.0	2.77	3.93	0.00	3.93	0.00	1.69	0.10	1.41	3.20	0.00	0.0	0.0	0.	0.00
840	14.700	29.49	0.0	0.0	0.0	2.76	3.90	0.00	3.90	0.00	1.69	0.10	1.41	3.20	0.00	0.0	0.0	0.	0.00
841	14.600	29.51	0.0	0.0	0.0	2.74	3.87	0.00	3.87	0.00	1.69	0.10	1.41	3.20	0.00	0.0	0.0	0.	0.00
842	14.500	29.52	0.0	0.0	0.0	2.73	3.84	0.00	3.84	0.00	1.69	0.10	1.42	3.21	0.00	0.0	0.0	0.	0.00
843	14.400	29.54	0.0	0.0	0.0	2.72	3.81	0.00	3.81	0.00	1.69	0.10	1.42	3.21	0.00	0.0	0.0	0.	0.00
844	14.300	29.56	0.0	0.0	0.0	2.71	3.78	0.00	3.78	0.00	1.69	0.10	1.42	3.21	0.00	0.0	0.0	0.	0.00
845	14.200	29.57	0.0	0.0	0.0	2.70	3.75	0.00	3.75	0.00	1.69	0.10	1.42	3.21	0.00	0.0	0.0	0.	0.00
846	14.100	29.59	0.0	0.0	0.0	2.69	3.72	0.00	3.72	0.00	1.70	0.10	1.42	3.21	0.00	0.0	0.0	0.	0.00
847	14.000	29.60	0.0	0.0	0.0	2.68	3.69	0.00	3.69	0.00	1.70	0.10	1.42	3.22	0.00	0.0	0.0	0.	0.00
848	13.900	29.62	0.0	0.0	0.0	2.67	3.66	0.00	3.66	0.00	1.70	0.10	1.42	3.22	0.00	0.0	0.0	0.	0.00
849	13.800	29.64	0.0	0.0	0.0	2.66	3.63	0.00	3.63	0.00	1.70	0.10	1.42	3.22	0.00	0.0	0.0	0.	0.00
850	13.700	29.65	0.0	0.0	0.0	2.65	3.60	0.00	3.60	0.00	1.70	0.10	1.42	3.22	0.00	0.0	0.0	0.	0.00
851	13.600	29.67	0.0	0.0	0.0	2.64	3.57	0.00	3.57	0.00	1.70	0.10	1.42	3.23	0.00	0.0	0.0	0.	0.00
852	13.500	29.68	0.0	0.0	0.0	2.63	3.54	0.00	3.54	0.00	1.70	0.10	1.42	3.23	0.00	0.0	0.0	0.	0.00
853	13.400	29.70	0.0	0.0	0.0	2.62	3.51	0.00	3.51	0.00	1.70	0.10	1.42	3.23	0.00	0.0	0.0	0.	0.00
854	13.300	29.72	0.0	0.0	0.0	2.61	3.48	0.00	3.48	0.00	1.70	0.10	1.43	3.23	0.00	0.0	0.0	0.	0.00
855	13.200	29.73	0.0	0.0	0.0	2.60	3.45	0.00	3.45	0.00	1.70	0.10	1.43	3.23	0.00	0.0	0.0	0.	0.00
856	13.100	29.75	0.0	0.0	0.0	2.59	3.43	0.00	3.43	0.00	1.70	0.10	1.43	3.24	0.00	0.0	0.0	0.	0.00
857	13.000	29.76	0.0	0.0	0.0	2.59	3.40	0.00	3.40	0.00	1.71	0.10	1.43	3.24	0.00	0.0	0.0	0.	0.00
858	12.900	29.78	0.0	0.0	0.0	2.58	3.37	0.00	3.37	0.00	1.71	0.10	1.43	3.24	0.00	0.0	0.0	0.	0.00
859	12.800	29.80	0.0	0.0	0.0	2.57	3.34	0.00	3.34	0.00	1.71	0.10	1.43	3.24	0.00	0.0	0.0	0.	0.00
860	12.700	29.81	0.0	0.0	0.0	2.56	3.32	0.00	3.32	0.00	1.71	0.10	1.43	3.24	0.00	0.0	0.0	0.	0.00
861	12.600	29.83	0.0	0.0	0.0	2.56	3.29	0.00	3.29	0.00	1.71	0.10	1.43	3.25	0.00	0.0	0.0	0.	0.00
862	12.500	29.84	0.0	0.0	0.0	2.55	3.26	0.00	3.26	0.00	1.71	0.10	1.43	3.25	0.00	0.0	0.0	0.	0.00
863	12.400	29.86	0.0	0.0	0.0	2.54	3.24	0.00	3.24	0.00	1.71	0.10	1.43	3.25	0.00	0.0	0.0	0.	0.00
864	12.300	29.88	0.0	0.0	0.0	2.54	3.21	0.00	3.21	0.00	1.71	0.10	1.43	3.25	0.00	0.0	0.0	0.	0.00
865	12.200	29.89	0.0	0.0	0.0	2.53	3.18	0.00	3.18	0.00	1.71	0.10	1.44	3.25	0.00	0.0	0.0	0.	0.00
866	12.100	29.91	0.0	0.0	0.0	2.53	3.16	0.00	3.16	0.00	1.71	0.10	1.44	3.26	0.00	0.0	0.0	0.	0.00
867	12.000	29.92	0.0	0.0	0.0	2.52	3.13	0.00	3.13	0.00	1.72	0.11	1.44	3.26	0.00	0.0	0.0	0.	0.00
868	11.900	29.94	0.0	0.0	0.0	2.51	3.11	0.00	3.11	0.00	1.72	0.11	1.44	3.26	0.00	0.0	0.0	0.	0.00
869	11.800	29.96	0.0	0.0	0.0	2.51	3.08	0.00	3.08	0.00	1.72	0.11	1.44	3.26	0.00	0.0	0.0	0.	0.00
870	11.700	29.97	0.0	0.0	0.0	2.50	3.06	0.00	3.06	0.00	1.72	0.11	1.44	3.26	0.00	0.0	0.0	0.	0.00
871	11.600	29.99	0.0	0.0	0.0	2.50	3.03	0.00	3.03	0.00	1.72	0.11	1.44	3.27	0.00	0.0	0.0	0.	0.00
872	11.500	30.00	0.0	0.0	0.0	2.49	3.01	0.00	3.01	0.00	1.72	0.11	1.44	3.27	0.00	0.0	0.0	0.	0.00
873	11.400	30.02	0.0	0.0	0.0	2.49	2.98	0.00	2.98	0.00	1.72	0.11	1.44	3.27	0.00	0.0	0.0	0.	0.00
874	11.300	30.04	0.0	0.0	0.0	2.49	2.96	0.00	2.96	0.00	1.72	0.11	1.44	3.27	0.00	0.0	0.0	0.	0.00
875	11.200	30.05	0.0	0.0	0.0	2.48	2.93	0.00	2.93	0.00	1.72	0.11	1.44	3.27	0.00	0.0	0.0	0.	0.00

876	11.100	30.07	0.0	0.0	0.0	2.48	2.91	0.00	2.91	0.00	1.72	0.11	1.45	3.28	0.00	0.0	0.0	0.	0.00
877	11.000	30.08	0.0	0.0	0.0	2.47	2.88	0.00	2.88	0.00	1.72	0.11	1.45	3.28	0.00	0.0	0.0	0.	0.00
878	10.900	30.10	0.0	0.0	0.0	2.47	2.86	0.00	2.86	0.00	1.73	0.11	1.45	3.28	0.00	0.0	0.0	0.	0.00
1047	10.800	30.10	0.0	0.0	0.0	2.86	3.48	0.00	3.48	0.00	1.58	0.09	1.16	2.84	0.00	0.0	0.0	0.	0.00
1048	10.700	30.10	0.0	0.0	0.0	2.86	3.47	0.00	3.47	0.00	1.58	0.09	1.16	2.84	0.00	0.0	0.0	0.	0.00
1049	10.600	30.10	0.0	0.0	0.0	2.86	3.45	0.00	3.45	0.00	1.58	0.09	1.16	2.84	0.00	0.0	0.0	0.	0.00
1050	10.500	30.10	0.0	0.0	0.0	2.86	3.44	0.00	3.44	0.00	1.58	0.09	1.16	2.84	0.00	0.0	0.0	0.	0.00
1051	10.400	30.10	0.0	0.0	0.0	2.86	3.43	0.00	3.43	0.00	1.58	0.09	1.16	2.84	0.00	0.0	0.0	0.	0.00
1052	10.300	30.10	0.0	0.0	0.0	2.86	3.42	0.00	3.42	0.00	1.58	0.09	1.16	2.84	0.00	0.0	0.0	0.	0.00
1053	10.200	30.10	0.0	0.0	0.0	2.86	3.41	0.00	3.41	0.00	1.58	0.09	1.17	2.84	0.00	0.0	0.0	0.	0.00
1054	10.100	30.10	0.0	0.0	0.0	2.86	3.39	0.00	3.39	0.00	1.59	0.09	1.17	2.84	0.00	0.0	0.0	0.	0.00
1055	10.000	30.10	0.0	0.0	0.0	2.86	3.38	0.00	3.38	0.00	1.59	0.09	1.17	2.85	0.00	0.0	0.0	0.	0.00
1056	9.900	30.10	0.0	0.0	0.0	2.87	3.37	0.00	3.37	0.00	1.59	0.09	1.17	2.85	0.00	0.0	0.0	0.	0.00
1057	9.800	30.10	0.0	0.0	0.0	2.87	3.36	0.00	3.36	0.00	1.59	0.09	1.17	2.85	0.00	0.0	0.0	0.	0.00
1058	9.700	30.10	0.0	0.0	0.0	2.87	3.35	0.00	3.35	0.00	1.59	0.09	1.17	2.85	0.00	0.0	0.0	0.	0.00
1059	9.600	30.10	0.0	0.0	0.0	2.87	3.33	0.00	3.33	0.00	1.59	0.09	1.17	2.85	0.00	0.0	0.0	0.	0.00
1060	9.500	30.10	0.0	0.0	0.0	2.87	3.32	0.00	3.32	0.00	1.59	0.09	1.17	2.85	0.00	0.0	0.0	0.	0.00
1061	9.400	30.10	0.0	0.0	0.0	2.87	3.31	0.00	3.31	0.00	1.59	0.09	1.17	2.85	0.00	0.0	0.0	0.	0.00
1062	9.300	30.10	0.0	0.0	0.0	2.87	3.30	0.00	3.30	0.00	1.59	0.09	1.17	2.85	0.00	0.0	0.0	0.	0.00
1063	9.200	30.10	0.0	0.0	0.0	2.87	3.29	0.00	3.29	0.00	1.59	0.09	1.17	2.86	0.00	0.0	0.0	0.	0.00
1064	9.100	30.10	0.0	0.0	0.0	2.87	3.28	0.00	3.28	0.00	1.59	0.09	1.17	2.86	0.00	0.0	0.0	0.	0.00
1065	9.000	30.10	0.0	0.0	0.0	2.87	3.27	0.00	3.27	0.00	1.59	0.09	1.17	2.86	0.00	0.0	0.0	0.	0.00
1066	8.900	30.10	0.0	0.0	0.0	2.87	3.25	0.00	3.25	0.00	1.59	0.09	1.17	2.86	0.00	0.0	0.0	0.	0.00
1067	8.800	30.10	0.0	0.0	0.0	2.88	3.24	0.00	3.24	0.00	1.60	0.09	1.17	2.86	0.00	0.0	0.0	0.	0.00
1068	8.700	30.10	0.0	0.0	0.0	2.88	3.23	0.00	3.23	0.00	1.60	0.09	1.17	2.86	0.00	0.0	0.0	0.	0.00
1069	8.600	30.10	0.0	0.0	0.0	2.88	3.22	0.00	3.22	0.00	1.60	0.09	1.17	2.86	0.00	0.0	0.0	0.	0.00
1070	8.500	30.10	0.0	0.0	0.0	2.88	3.21	0.00	3.21	0.00	1.60	0.09	1.17	2.86	0.00	0.0	0.0	0.	0.00
1071	8.400	30.10	0.0	0.0	0.0	2.88	3.20	0.00	3.20	0.00	1.60	0.09	1.17	2.86	0.00	0.0	0.0	0.	0.00
1072	8.300	30.10	0.0	0.0	0.0	2.88	3.19	0.00	3.19	0.00	1.60	0.09	1.17	2.87	0.00	0.0	0.0	0.	0.00
1073	8.200	30.10	0.0	0.0	0.0	2.88	3.17	0.00	3.17	0.00	1.60	0.09	1.17	2.87	0.00	0.0	0.0	0.	0.00
1074	8.100	30.10	0.0	0.0	0.0	2.89	3.16	0.00	3.16	0.00	1.60	0.10	1.17	2.87	0.00	0.0	0.0	0.	0.00
1075	8.000	30.10	0.0	0.0	0.0	2.89	3.15	0.00	3.15	0.00	1.60	0.10	1.17	2.87	0.00	0.0	0.0	0.	0.00
1076	7.900	30.10	0.0	0.0	0.0	2.89	3.14	0.00	3.14	0.00	1.60	0.10	1.17	2.87	0.00	0.0	0.0	0.	0.00
1077	7.800	30.10	0.0	0.0	0.0	2.89	3.13	0.00	3.13	0.00	1.60	0.10	1.17	2.87	0.00	0.0	0.0	0.	0.00
1078	7.700	30.10	0.0	0.0	0.0	2.89	3.12	0.00	3.12	0.00	1.60	0.10	1.17	2.87	0.00	0.0	0.0	0.	0.00
1079	7.600	30.10	0.0	0.0	0.0	2.89	3.11	0.00	3.11	0.00	1.60	0.10	1.17	2.87	0.00	0.0	0.0	0.	0.00
1080	7.500	30.10	0.0	0.0	0.0	2.89	3.10	0.00	3.10	0.00	1.60	0.10	1.18	2.88	0.00	0.0	0.0	0.	0.00
1081	7.400	30.10	0.0	0.0	0.0	2.90	3.09	0.00	3.09	0.00	1.61	0.10	1.18	2.88	0.00	0.0	0.0	0.	0.00
1082	7.300	30.10	0.0	0.0	0.0	2.90	3.07	0.00	3.07	0.00	1.61	0.10	1.18	2.88	0.00	0.0	0.0	0.	0.00
1083	7.200	30.10	0.0	0.0	0.0	2.90	3.06	0.00	3.06	0.00	1.61	0.10	1.18	2.88	0.00	0.0	0.0	0.	0.00
1084	7.100	30.10	0.0	0.0	0.0	2.90	3.05	0.00	3.05	0.00	1.61	0.10	1.18	2.88	0.00	0.0	0.0	0.	0.00
1085	7.000	30.10	0.0	0.0	0.0	2.90	3.04	0.00	3.04	0.00	1.61	0.10	1.18	2.88	0.00	0.0	0.0	0.	0.00
1086	6.900	30.10	0.0	0.0	0.0	2.90	3.03	0.00	3.03	0.00	1.61	0.10	1.18	2.88	0.00	0.0	0.0	0.	0.00
1087	6.800	30.10	0.0	0.0	0.0	2.91	3.02	0.00	3.02	0.00	1.61	0.10	1.18	2.88	0.00	0.0	0.0	0.	0.00
1088	6.700	30.10	0.0	0.0	0.0	2.91	3.01	0.00	3.01	0.00	1.61	0.10	1.18	2.88	0.00	0.0	0.0	0.	0.00
1089	6.600	30.10	0.0	0.0	0.0	2.91	3.00	0.00	3.00	0.00	1.61	0.10	1.18	2.89	0.00	0.0	0.0	0.	0.00
1090	6.500	30.10	0.0	0.0	0.0	2.91	2.99	0.00	2.99	0.00	1.61	0.10	1.18	2.89	0.00	0.0	0.0	0.	0.00
1091	6.400	30.10	0.0	0.0	0.0	2.91	2.98	0.00	2.98	0.00	1.61	0.10	1.18	2.89	0.00	0.0	0.0	0.	0.00
1092	6.300	30.10	0.0	0.0	0.0	2.92	2.97	0.00	2.97	0.00	1.61	0.10	1.18	2.89	0.00	0.0	0.0	0.	0.00
1093	6.200	30.10	0.0	0.0	0.0	2.92	2.96	0.00	2.96	0.00	1.61	0.10	1.18	2.89	0.00	0.0	0.0	0.	0.00

1094	6.100	30.10	0.0	0.0	0.0	2.92	2.95	0.00	2.95	0.00	1.61	0.10	1.18	2.89	0.00	0.0	0.0	0.	0.00
1095	6.000	30.10	0.0	0.0	0.0	2.92	2.94	0.00	2.94	0.00	1.62	0.10	1.18	2.89	0.00	0.0	0.0	0.	0.00
1096	5.900	30.10	0.0	0.0	0.0	2.92	2.93	0.00	2.93	0.00	1.62	0.10	1.18	2.89	0.00	0.0	0.0	0.	0.00
1097	5.800	30.10	0.0	0.0	0.0	2.93	2.92	0.00	2.92	0.00	1.62	0.10	1.18	2.90	0.00	0.0	0.0	0.	0.00
1098	5.700	30.10	0.0	0.0	0.0	2.93	2.91	0.00	2.91	0.00	1.62	0.10	1.18	2.90	0.00	0.0	0.0	0.	0.00
1099	5.600	30.10	0.0	0.0	0.0	2.93	2.90	0.00	2.90	0.00	1.62	0.10	1.18	2.90	0.00	0.0	0.0	0.	0.00
1100	5.500	30.10	0.0	0.0	0.0	2.93	2.89	0.00	2.89	0.00	1.62	0.10	1.18	2.90	0.00	0.0	0.0	0.	0.00
1101	5.400	30.10	0.0	0.0	0.0	2.93	2.88	0.00	2.88	0.00	1.62	0.10	1.18	2.90	0.00	0.0	0.0	0.	0.00
1102	5.300	30.10	0.0	0.0	0.0	2.94	2.87	0.00	2.87	0.00	1.62	0.10	1.18	2.90	0.00	0.0	0.0	0.	0.00
1103	5.200	30.10	0.0	0.0	0.0	2.94	2.86	0.00	2.86	0.00	1.62	0.10	1.18	2.90	0.00	0.0	0.0	0.	0.00
1104	5.100	30.10	0.0	0.0	0.0	2.94	2.85	0.00	2.85	0.00	1.62	0.10	1.18	2.90	0.00	0.0	0.0	0.	0.00
1105	5.000	30.10	0.0	0.0	0.0	2.94	2.84	0.00	2.84	0.00	1.62	0.10	1.18	2.90	0.00	0.0	0.0	0.	0.00
1106	4.900	30.10	0.0	0.0	0.0	2.94	2.83	0.00	2.83	0.00	1.62	0.10	1.18	2.91	0.00	0.0	0.0	0.	0.00
1107	4.800	30.10	0.0	0.0	0.0	2.95	2.82	0.00	2.82	0.00	1.62	0.10	1.19	2.91	0.00	0.0	0.0	0.	0.00
1108	4.700	30.10	0.0	0.0	0.0	2.95	2.81	0.00	2.81	0.00	1.63	0.10	1.19	2.91	0.00	0.0	0.0	0.	0.00
1109	4.600	30.10	0.0	0.0	0.0	2.95	2.80	0.00	2.80	0.00	1.63	0.10	1.19	2.91	0.00	0.0	0.0	0.	0.00
1110	4.500	30.10	0.0	0.0	0.0	2.95	2.79	0.00	2.79	0.00	1.63	0.10	1.19	2.91	0.00	0.0	0.0	0.	0.00
1111	4.400	30.10	0.0	0.0	0.0	2.96	2.78	0.00	2.78	0.00	1.63	0.10	1.19	2.91	0.00	0.0	0.0	0.	0.00
1112	4.300	30.10	0.0	0.0	0.0	2.96	2.77	0.00	2.77	0.00	1.63	0.10	1.19	2.91	0.00	0.0	0.0	0.	0.00
1113	4.200	30.10	0.0	0.0	0.0	2.96	2.76	0.00	2.76	0.00	1.63	0.10	1.19	2.91	0.00	0.0	0.0	0.	0.00
1114	4.100	30.10	0.0	0.0	0.0	2.96	2.75	0.00	2.75	0.00	1.63	0.10	1.19	2.91	0.00	0.0	0.0	0.	0.00
1115	4.000	30.10	0.0	0.0	0.0	2.97	2.74	0.00	2.74	0.00	1.63	0.10	1.19	2.92	0.00	0.0	0.0	0.	0.00
1116	3.900	30.10	0.0	0.0	0.0	2.97	2.73	0.00	2.73	0.00	1.63	0.10	1.19	2.92	0.00	0.0	0.0	0.	0.00
1117	3.800	30.10	0.0	0.0	0.0	2.97	2.72	0.00	2.72	0.00	1.63	0.10	1.19	2.92	0.00	0.0	0.0	0.	0.00
1118	3.700	30.10	0.0	0.0	0.0	2.97	2.71	0.00	2.71	0.00	1.63	0.10	1.19	2.92	0.00	0.0	0.0	0.	0.00
1119	3.600	30.10	0.0	0.0	0.0	2.98	2.70	0.00	2.70	0.00	1.63	0.10	1.19	2.92	0.00	0.0	0.0	0.	0.00
1120	3.500	30.10	0.0	0.0	0.0	2.98	2.69	0.00	2.69	0.00	1.63	0.10	1.19	2.92	0.00	0.0	0.0	0.	0.00
1121	3.400	30.10	0.0	0.0	0.0	2.98	2.68	0.00	2.68	0.00	1.63	0.10	1.19	2.92	0.00	0.0	0.0	0.	0.00
1122	3.300	30.10	0.0	0.0	0.0	2.98	2.67	0.00	2.67	0.00	1.64	0.10	1.19	2.92	0.00	0.0	0.0	0.	0.00
1123	3.200	30.10	0.0	0.0	0.0	2.99	2.66	0.00	2.66	0.00	1.64	0.10	1.19	2.93	0.00	0.0	0.0	0.	0.00
1124	3.100	30.10	0.0	0.0	0.0	2.99	2.65	0.00	2.65	0.00	1.64	0.10	1.19	2.93	0.00	0.0	0.0	0.	0.00
1125	3.000	30.10	0.0	0.0	0.0	2.99	2.64	0.00	2.64	0.00	1.64	0.10	1.19	2.93	0.00	0.0	0.0	0.	0.00
1126	2.900	30.10	0.0	0.0	0.0	2.99	2.63	0.00	2.63	0.00	1.64	0.10	1.19	2.93	0.00	0.0	0.0	0.	0.00
1127	2.800	30.10	0.0	0.0	0.0	3.00	2.62	0.00	2.62	0.00	1.64	0.10	1.19	2.93	0.00	0.0	0.0	0.	0.00
1128	2.700	30.10	0.0	0.0	0.0	3.00	2.61	0.00	2.61	0.00	1.64	0.10	1.19	2.93	0.00	0.0	0.0	0.	0.00
1129	2.600	30.10	0.0	0.0	0.0	3.00	2.61	0.00	2.61	0.00	1.64	0.10	1.19	2.93	0.00	0.0	0.0	0.	0.00
1130	2.500	30.10	0.0	0.0	0.0	3.01	2.60	0.00	2.60	0.00	1.64	0.10	1.19	2.93	0.00	0.0	0.0	0.	0.00
1131	2.400	30.10	0.0	0.0	0.0	3.01	2.59	0.00	2.59	0.00	1.64	0.10	1.19	2.93	0.00	0.0	0.0	0.	0.00
1132	2.300	30.10	0.0	0.0	0.0	3.01	2.58	0.00	2.58	0.00	1.64	0.10	1.19	2.94	0.00	0.0	0.0	0.	0.00
1133	2.200	30.10	0.0	0.0	0.0	3.01	2.57	0.00	2.57	0.00	1.64	0.10	1.20	2.94	0.00	0.0	0.0	0.	0.00
1134	2.100	30.10	0.0	0.0	0.0	3.02	2.56	0.00	2.56	0.00	1.64	0.10	1.20	2.94	0.00	0.0	0.0	0.	0.00
1135	2.000	30.10	0.0	0.0	0.0	3.02	2.55	0.00	2.55	0.00	1.64	0.10	1.20	2.94	0.00	0.0	0.0	0.	0.00
1136	1.900	30.10	0.0	0.0	0.0	3.02	2.54	0.00	2.54	0.00	1.65	0.10	1.20	2.94	0.00	0.0	0.0	0.	0.00
1137	1.800	30.10	0.0	0.0	0.0	3.03	2.53	0.00	2.53	0.00	1.65	0.10	1.20	2.94	0.00	0.0	0.0	0.	0.00
1138	1.700	30.10	0.0	0.0	0.0	3.03	2.52	0.00	2.52	0.00	1.65	0.10	1.20	2.94	0.00	0.0	0.0	0.	0.00
1139	1.600	30.10	0.0	0.0	0.0	3.03	2.51	0.00	2.51	0.00	1.65	0.10	1.20	2.94	0.00	0.0	0.0	0.	0.00
1140	1.500	30.10	0.0	0.0	0.0	3.03	2.51	0.00	2.51	0.00	1.65	0.10	1.20	2.95	0.00	0.0	0.0	0.	0.00
1141	1.400	30.10	0.0	0.0	0.0	3.04	2.50	0.00	2.50	0.00	1.65	0.10	1.20	2.95	0.00	0.0	0.0	0.	0.00
1142	1.300	30.10	0.0	0.0	0.0	3.04	2.49	0.00	2.49	0.00	1.65	0.10	1.20	2.95	0.00	0.0	0.0	0.	0.00
1143	1.200	30.10	0.0	0.0	0.0	3.04	2.48	0.00	2.48	0.00	1.65	0.10	1.20	2.95	0.00	0.0	0.0	0.	0.00

1144	1.100	30.10	0.0	0.0	0.0	3.05	2.47	0.00	2.47	0.00	1.65	0.10	1.20	2.95	0.00	0.0	0.0	0.	0.00
1145	1.000	30.10	0.0	0.0	0.0	3.05	2.46	0.00	2.46	0.00	1.65	0.10	1.20	2.95	0.00	0.0	0.0	0.	0.00
1146	0.900	30.10	0.0	0.0	0.0	3.05	2.45	0.00	2.45	0.00	1.65	0.10	1.20	2.95	0.00	0.0	0.0	0.	0.00
1147	0.800	30.10	0.0	0.0	0.0	3.06	2.44	0.00	2.44	0.00	1.65	0.10	1.20	2.95	0.00	0.0	0.0	0.	0.00
1148	0.700	30.10	0.0	0.0	0.0	3.06	2.44	0.00	2.44	0.00	1.65	0.10	1.20	2.95	0.00	0.0	0.0	0.	0.00
1149	0.600	30.10	0.0	0.0	0.0	3.06	2.43	0.00	2.43	0.00	1.65	0.10	1.20	2.96	0.00	0.0	0.0	0.	0.00
1150	0.500	30.10	0.0	0.0	0.0	3.07	2.42	0.00	2.42	0.00	1.66	0.10	1.20	2.96	0.00	0.0	0.0	0.	0.00
1151	0.400	30.10	0.0	0.0	0.0	3.07	2.41	0.00	2.41	0.00	1.66	0.10	1.20	2.96	0.00	0.0	0.0	0.	0.00
1152	0.300	30.10	0.0	0.0	0.0	3.07	2.40	0.00	2.40	0.00	1.66	0.10	1.20	2.96	0.00	0.0	0.0	0.	0.00
1153	0.200	30.10	0.0	0.0	0.0	3.07	2.39	0.00	2.39	0.00	1.66	0.10	1.20	2.96	0.00	0.0	0.0	0.	0.00
1154	0.100	30.10	0.0	0.0	0.0	3.08	2.39	0.00	2.39	0.00	1.66	0.10	1.20	2.96	0.00	0.0	0.0	0.	0.00
1155	0.000	30.10	0.0	0.0	0.0	3.08	2.38	0.00	2.38	0.00	1.66	0.10	1.20	2.96	0.00	0.0	0.0	0.	0.00

SPECIAL REPORT: Bayou Poydras #1
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS	CHL A *	MACRO	COLI #/100mL	NCM
126	10.200	27.00	0.0	0.0	0.0	1.11	30.62	0.00	30.62	0.00	1.54	0.20	0.00	1.74	0.00	0.0	0.0	0.	0.00
127	10.100	27.00	0.0	0.0	0.0	1.77	30.54	0.00	30.54	0.00	1.54	0.20	0.00	1.74	0.00	0.0	0.0	0.	0.00
128	10.000	27.00	0.0	0.0	0.0	2.33	30.45	0.00	30.45	0.00	1.54	0.20	0.00	1.74	0.00	0.0	0.0	0.	0.00
129	9.900	27.00	0.0	0.0	0.0	2.82	30.37	0.00	30.37	0.00	1.54	0.20	0.00	1.74	0.00	0.0	0.0	0.	0.00
130	9.800	27.00	0.0	0.0	0.0	3.25	30.28	0.00	30.28	0.00	1.54	0.20	0.00	1.74	0.00	0.0	0.0	0.	0.00
131	9.700	27.00	0.0	0.0	0.0	3.64	30.19	0.00	30.19	0.00	1.54	0.20	0.01	1.74	0.00	0.0	0.0	0.	0.00
132	9.600	27.00	0.0	0.0	0.0	3.97	30.10	0.00	30.10	0.00	1.53	0.20	0.01	1.74	0.00	0.0	0.0	0.	0.00
133	9.500	27.00	0.0	0.0	0.0	4.27	30.02	0.00	30.02	0.00	1.53	0.20	0.01	1.74	0.00	0.0	0.0	0.	0.00
134	9.400	27.00	0.0	0.0	0.0	4.53	29.93	0.00	29.93	0.00	1.53	0.20	0.01	1.74	0.00	0.0	0.0	0.	0.00
135	9.300	27.00	0.0	0.0	0.0	4.76	29.84	0.00	29.84	0.00	1.53	0.20	0.01	1.74	0.00	0.0	0.0	0.	0.00
136	9.200	27.00	0.0	0.0	0.0	4.97	29.76	0.00	29.76	0.00	1.53	0.20	0.01	1.74	0.00	0.0	0.0	0.	0.00
137	9.100	27.00	0.0	0.0	0.0	5.15	29.67	0.00	29.67	0.00	1.53	0.20	0.01	1.74	0.00	0.0	0.0	0.	0.00
138	9.000	27.00	0.0	0.0	0.0	5.31	29.58	0.00	29.58	0.00	1.53	0.20	0.01	1.74	0.00	0.0	0.0	0.	0.00
139	8.900	27.00	0.0	0.0	0.0	5.45	29.50	0.00	29.50	0.00	1.53	0.19	0.02	1.74	0.00	0.0	0.0	0.	0.00
140	8.800	27.00	0.0	0.0	0.0	5.57	29.41	0.00	29.41	0.00	1.53	0.19	0.02	1.74	0.00	0.0	0.0	0.	0.00
141	8.700	27.00	0.0	0.0	0.0	5.68	29.33	0.00	29.33	0.00	1.53	0.19	0.02	1.74	0.00	0.0	0.0	0.	0.00
142	8.600	27.00	0.0	0.0	0.0	5.77	29.24	0.00	29.24	0.00	1.53	0.19	0.02	1.74	0.00	0.0	0.0	0.	0.00
143	8.500	27.00	0.0	0.0	0.0	5.86	29.16	0.00	29.16	0.00	1.53	0.19	0.02	1.74	0.00	0.0	0.0	0.	0.00
144	8.400	27.00	0.0	0.0	0.0	5.93	29.08	0.00	29.08	0.00	1.53	0.19	0.02	1.74	0.00	0.0	0.0	0.	0.00
145	8.300	27.00	0.0	0.0	0.0	6.00	28.99	0.00	28.99	0.00	1.53	0.19	0.02	1.74	0.00	0.0	0.0	0.	0.00
146	8.200	27.00	0.0	0.0	0.0	6.06	28.91	0.00	28.91	0.00	1.52	0.19	0.03	1.74	0.00	0.0	0.0	0.	0.00
147	8.100	27.00	0.0	0.0	0.0	6.11	28.82	0.00	28.82	0.00	1.52	0.19	0.03	1.74	0.00	0.0	0.0	0.	0.00
148	8.000	27.00	0.0	0.0	0.0	6.16	28.77	0.00	28.77	0.00	1.52	0.19	0.03	1.75	0.00	0.0	0.0	0.	0.00
149	7.900	27.00	0.0	0.0	0.0	6.20	28.69	0.00	28.69	0.00	1.52	0.19	0.03	1.75	0.00	0.0	0.0	0.	0.00
150	7.800	27.00	0.0	0.0	0.0	6.23	28.61	0.00	28.61	0.00	1.52	0.19	0.03	1.75	0.00	0.0	0.0	0.	0.00
151	7.700	27.00	0.0	0.0	0.0	6.27	28.53	0.00	28.53	0.00	1.52	0.19	0.04	1.75	0.00	0.0	0.0	0.	0.00
152	7.600	27.00	0.0	0.0	0.0	6.29	28.45	0.00	28.45	0.00	1.52	0.19	0.04	1.75	0.00	0.0	0.0	0.	0.00
153	7.500	27.00	0.0	0.0	0.0	6.32	28.37	0.00	28.37	0.00	1.52	0.19	0.04	1.75	0.00	0.0	0.0	0.	0.00
154	7.400	27.00	0.0	0.0	0.0	6.34	28.29	0.00	28.29	0.00	1.52	0.19	0.04	1.75	0.00	0.0	0.0	0.	0.00
155	7.300	27.00	0.0	0.0	0.0	6.36	28.20	0.00	28.20	0.00	1.52	0.19	0.04	1.75	0.00	0.0	0.0	0.	0.00
156	7.200	27.00	0.0	0.0	0.0	6.38	28.12	0.00	28.12	0.00	1.52	0.19	0.04	1.75	0.00	0.0	0.0	0.	0.00
157	7.100	27.00	0.0	0.0	0.0	6.40	28.04	0.00	28.04	0.00	1.52	0.19	0.04	1.75	0.00	0.0	0.0	0.	0.00

158	7.000	27.00	0.0	0.0	0.0	6.41	27.97	0.00	27.97	0.00	1.52	0.19	0.05	1.76	0.00	0.0	0.0	0. 0.00
159	6.900	27.00	0.0	0.0	0.0	6.42	27.89	0.00	27.89	0.00	1.51	0.19	0.06	1.76	0.00	0.0	0.0	0. 0.00
160	6.800	27.00	0.0	0.0	0.0	6.43	27.81	0.00	27.81	0.00	1.51	0.19	0.06	1.76	0.00	0.0	0.0	0. 0.00
161	6.700	27.00	0.0	0.0	0.0	6.44	27.73	0.00	27.73	0.00	1.51	0.19	0.06	1.76	0.00	0.0	0.0	0. 0.00
162	6.600	27.00	0.0	0.0	0.0	6.45	27.65	0.00	27.65	0.00	1.51	0.19	0.06	1.76	0.00	0.0	0.0	0. 0.00
163	6.500	27.00	0.0	0.0	0.0	6.46	27.57	0.00	27.57	0.00	1.51	0.19	0.06	1.76	0.00	0.0	0.0	0. 0.00
164	6.400	27.00	0.0	0.0	0.0	6.47	27.51	0.00	27.51	0.00	1.51	0.19	0.06	1.77	0.00	0.0	0.0	0. 0.00
165	6.300	27.00	0.0	0.0	0.0	6.48	27.43	0.00	27.43	0.00	1.51	0.19	0.07	1.77	0.00	0.0	0.0	0. 0.00
166	6.200	27.00	0.0	0.0	0.0	6.48	27.35	0.00	27.35	0.00	1.51	0.19	0.07	1.77	0.00	0.0	0.0	0. 0.00
167	6.100	27.00	0.0	0.0	0.0	6.49	27.27	0.00	27.27	0.00	1.51	0.19	0.07	1.77	0.00	0.0	0.0	0. 0.00
168	6.000	27.00	0.0	0.0	0.0	6.50	27.19	0.00	27.19	0.00	1.51	0.19	0.07	1.77	0.00	0.0	0.0	0. 0.00
169	5.900	27.00	0.0	0.0	0.0	6.50	27.12	0.00	27.12	0.00	1.51	0.19	0.07	1.77	0.00	0.0	0.0	0. 0.00
170	5.800	27.00	0.0	0.0	0.0	6.51	27.04	0.00	27.04	0.00	1.51	0.19	0.07	1.77	0.00	0.0	0.0	0. 0.00
171	5.700	27.00	0.0	0.0	0.0	6.51	26.96	0.00	26.96	0.00	1.51	0.19	0.07	1.77	0.00	0.0	0.0	0. 0.00
172	5.600	27.00	0.0	0.0	0.0	6.52	26.88	0.00	26.88	0.00	1.51	0.19	0.07	1.77	0.00	0.0	0.0	0. 0.00
173	5.500	27.00	0.0	0.0	0.0	6.52	26.81	0.00	26.81	0.00	1.50	0.18	0.08	1.77	0.00	0.0	0.0	0. 0.00
174	5.400	27.00	0.0	0.0	0.0	6.52	26.73	0.00	26.73	0.00	1.50	0.18	0.08	1.77	0.00	0.0	0.0	0. 0.00
175	5.300	27.00	0.0	0.0	0.0	6.53	26.65	0.00	26.65	0.00	1.50	0.18	0.08	1.77	0.00	0.0	0.0	0. 0.00
176	5.200	27.00	0.0	0.0	0.0	6.53	26.58	0.00	26.58	0.00	1.50	0.18	0.08	1.77	0.00	0.0	0.0	0. 0.00
177	5.100	27.00	0.0	0.0	0.0	6.53	26.50	0.00	26.50	0.00	1.50	0.18	0.08	1.77	0.00	0.0	0.0	0. 0.00
178	5.000	27.00	0.0	0.0	0.0	6.54	26.42	0.00	26.42	0.00	1.50	0.18	0.08	1.77	0.00	0.0	0.0	0. 0.00
179	4.900	27.00	0.0	0.0	0.0	6.54	26.35	0.00	26.35	0.00	1.50	0.18	0.08	1.77	0.00	0.0	0.0	0. 0.00
180	4.800	27.00	0.0	0.0	0.0	6.54	26.27	0.00	26.27	0.00	1.50	0.18	0.08	1.77	0.00	0.0	0.0	0. 0.00
181	4.700	27.00	0.0	0.0	0.0	6.54	26.20	0.00	26.20	0.00	1.50	0.18	0.09	1.77	0.00	0.0	0.0	0. 0.00
182	4.600	27.00	0.0	0.0	0.0	6.55	26.12	0.00	26.12	0.00	1.50	0.18	0.09	1.77	0.00	0.0	0.0	0. 0.00
183	4.500	27.04	0.0	0.0	0.0	6.10	26.52	0.00	26.52	0.00	1.57	0.17	0.14	1.88	0.00	0.0	0.0	0. 0.00
184	4.400	27.09	0.0	0.0	0.0	5.74	26.88	0.00	26.88	0.00	1.64	0.16	0.20	1.99	0.00	0.0	0.0	0. 0.00
185	4.300	27.13	0.0	0.0	0.0	5.44	27.19	0.00	27.19	0.00	1.69	0.15	0.24	2.08	0.00	0.0	0.0	0. 0.00
186	4.200	27.17	0.0	0.0	0.0	5.18	27.52	0.00	27.52	0.00	1.74	0.17	0.32	2.23	0.00	0.0	0.0	0. 0.00
187	4.100	27.22	0.0	0.0	0.0	4.97	27.78	0.00	27.78	0.00	1.79	0.17	0.36	2.32	0.00	0.0	0.0	0. 0.00
188	4.000	27.26	0.0	0.0	0.0	4.79	28.00	0.00	28.00	0.00	1.83	0.16	0.39	2.38	0.00	0.0	0.0	0. 0.00
189	3.900	27.30	0.0	0.0	0.0	4.65	28.19	0.00	28.19	0.00	1.87	0.15	0.42	2.44	0.00	0.0	0.0	0. 0.00
190	3.800	27.35	0.0	0.0	0.0	4.52	28.37	0.00	28.37	0.00	1.90	0.15	0.45	2.50	0.00	0.0	0.0	0. 0.00
191	3.700	27.39	0.0	0.0	0.0	4.42	28.53	0.00	28.53	0.00	1.93	0.14	0.47	2.55	0.00	0.0	0.0	0. 0.00
192	3.600	27.43	0.0	0.0	0.0	4.34	28.68	0.00	28.68	0.00	1.96	0.14	0.49	2.59	0.00	0.0	0.0	0. 0.00
193	3.500	27.48	0.0	0.0	0.0	4.27	28.82	0.00	28.82	0.00	1.99	0.13	0.51	2.64	0.00	0.0	0.0	0. 0.00
194	3.400	27.52	0.0	0.0	0.0	4.21	28.95	0.00	28.95	0.00	2.02	0.13	0.53	2.68	0.00	0.0	0.0	0. 0.00
195	3.300	27.57	0.0	0.0	0.0	4.16	29.07	0.00	29.07	0.00	2.04	0.12	0.55	2.71	0.00	0.0	0.0	0. 0.00
196	3.200	27.61	0.0	0.0	0.0	4.12	29.17	0.00	29.17	0.00	2.06	0.12	0.57	2.75	0.00	0.0	0.0	0. 0.00
197	3.100	27.65	0.0	0.0	0.0	4.09	29.27	0.00	29.27	0.00	2.09	0.12	0.58	2.78	0.00	0.0	0.0	0. 0.00
198	3.000	27.70	0.0	0.0	0.0	4.06	29.37	0.00	29.37	0.00	2.11	0.11	0.60	2.81	0.00	0.0	0.0	0. 0.00
199	2.900	27.74	0.0	0.0	0.0	4.04	29.46	0.00	29.46	0.00	2.12	0.11	0.61	2.84	0.00	0.0	0.0	0. 0.00
200	2.800	27.78	0.0	0.0	0.0	4.03	29.54	0.00	29.54	0.00	2.14	0.11	0.62	2.87	0.00	0.0	0.0	0. 0.00
201	2.700	27.83	0.0	0.0	0.0	4.02	29.61	0.00	29.61	0.00	2.16	0.11	0.63	2.90	0.00	0.0	0.0	0. 0.00
202	2.600	27.87	0.0	0.0	0.0	4.01	29.68	0.00	29.68	0.00	2.17	0.10	0.64	2.92	0.00	0.0	0.0	0. 0.00
203	2.500	27.91	0.0	0.0	0.0	4.00	29.75	0.00	29.75	0.00	2.19	0.10	0.66	2.94	0.00	0.0	0.0	0. 0.00
204	2.400	27.96	0.0	0.0	0.0	4.00	29.81	0.00	29.81	0.00	2.20	0.10	0.67	2.97	0.00	0.0	0.0	0. 0.00
205	2.300	28.00	0.0	0.0	0.0	4.00	29.87	0.00	29.87	0.00	2.22	0.10	0.68	2.99	0.00	0.0	0.0	0. 0.00
206	2.200	28.04	0.0	0.0	0.0	4.00	29.93	0.00	29.93	0.00	2.23	0.10	0.68	3.01	0.00	0.0	0.0	0. 0.00
207	2.100	28.09	0.0	0.0	0.0	4.01	29.98	0.00	29.98	0.00	2.24	0.09	0.69	3.03	0.00	0.0	0.0	0. 0.00

208	2.000	28.13	0.0	0.0	0.0	4.01	30.03	0.00	30.03	0.00	2.25	0.09	0.70	3.04	0.00	0.0	0.0	0.	0.00
209	1.900	28.17	0.0	0.0	0.0	4.02	30.08	0.00	30.08	0.00	2.26	0.09	0.71	3.06	0.00	0.0	0.0	0.	0.00
210	1.800	28.22	0.0	0.0	0.0	4.02	30.12	0.00	30.12	0.00	2.27	0.09	0.72	3.08	0.00	0.0	0.0	0.	0.00
211	1.700	28.26	0.0	0.0	0.0	4.03	30.16	0.00	30.16	0.00	2.28	0.09	0.72	3.09	0.00	0.0	0.0	0.	0.00
212	1.600	28.30	0.0	0.0	0.0	4.04	30.20	0.00	30.20	0.00	2.29	0.09	0.73	3.11	0.00	0.0	0.0	0.	0.00
213	1.500	28.35	0.0	0.0	0.0	4.05	30.24	0.00	30.24	0.00	2.30	0.09	0.74	3.12	0.00	0.0	0.0	0.	0.00
214	1.400	28.39	0.0	0.0	0.0	4.06	30.28	0.00	30.28	0.00	2.31	0.09	0.74	3.14	0.00	0.0	0.0	0.	0.00
215	1.300	28.43	0.0	0.0	0.0	4.07	30.31	0.00	30.31	0.00	2.32	0.08	0.75	3.15	0.00	0.0	0.0	0.	0.00
216	1.200	28.48	0.0	0.0	0.0	4.08	30.34	0.00	30.34	0.00	2.33	0.08	0.75	3.16	0.00	0.0	0.0	0.	0.00
217	1.100	28.52	0.0	0.0	0.0	4.09	30.37	0.00	30.37	0.00	2.33	0.08	0.76	3.18	0.00	0.0	0.0	0.	0.00
218	1.000	28.57	0.0	0.0	0.0	4.10	30.40	0.00	30.40	0.00	2.34	0.08	0.76	3.19	0.00	0.0	0.0	0.	0.00
219	0.900	28.61	0.0	0.0	0.0	4.11	30.43	0.00	30.43	0.00	2.35	0.08	0.77	3.20	0.00	0.0	0.0	0.	0.00
220	0.800	28.65	0.0	0.0	0.0	4.12	30.45	0.00	30.45	0.00	2.36	0.08	0.77	3.21	0.00	0.0	0.0	0.	0.00
221	0.700	28.70	0.0	0.0	0.0	4.14	30.48	0.00	30.48	0.00	2.36	0.08	0.78	3.22	0.00	0.0	0.0	0.	0.00
222	0.600	28.74	0.0	0.0	0.0	4.15	30.50	0.00	30.50	0.00	2.37	0.08	0.78	3.23	0.00	0.0	0.0	0.	0.00
223	0.500	28.78	0.0	0.0	0.0	4.16	30.53	0.00	30.53	0.00	2.37	0.08	0.79	3.24	0.00	0.0	0.0	0.	0.00
224	0.400	28.83	0.0	0.0	0.0	4.17	30.55	0.00	30.55	0.00	2.38	0.08	0.79	3.25	0.00	0.0	0.0	0.	0.00
225	0.300	28.87	0.0	0.0	0.0	4.18	30.57	0.00	30.57	0.00	2.39	0.08	0.80	3.26	0.00	0.0	0.0	0.	0.00
226	0.200	28.91	0.0	0.0	0.0	4.19	30.59	0.00	30.59	0.00	2.39	0.08	0.80	3.27	0.00	0.0	0.0	0.	0.00
227	0.100	28.96	0.0	0.0	0.0	4.20	30.61	0.00	30.61	0.00	2.40	0.08	0.80	3.28	0.00	0.0	0.0	0.	0.00
228	0.000	29.00	0.0	0.0	0.0	4.21	30.63	0.00	30.63	0.00	2.40	0.07	0.81	3.29	0.00	0.0	0.0	0.	0.00

SPECIAL REPORT: Chamberlin Canal #1
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS	CHL A	MACRO #/100mL	COLI	NCM *
272	7.400	26.38	0.0	0.0	0.0	4.65	9.86	0.00	9.86	0.00	1.28	0.09	0.08	1.44	0.00	0.0	0.0	0.	0.00
273	7.300	26.46	0.0	0.0	0.0	5.16	10.32	0.00	10.32	0.00	1.36	0.08	0.09	1.52	0.00	0.0	0.0	0.	0.00
274	7.200	26.55	0.0	0.0	0.0	5.25	10.68	0.00	10.68	0.00	1.42	0.07	0.09	1.59	0.00	0.0	0.0	0.	0.00
275	7.100	26.63	0.0	0.0	0.0	5.32	10.98	0.00	10.98	0.00	1.48	0.06	0.10	1.64	0.00	0.0	0.0	0.	0.00
276	7.000	26.71	0.0	0.0	0.0	5.38	11.23	0.00	11.23	0.00	1.54	0.06	0.10	1.69	0.00	0.0	0.0	0.	0.00
277	6.900	26.79	0.0	0.0	0.0	5.44	11.43	0.00	11.43	0.00	1.58	0.06	0.10	1.74	0.00	0.0	0.0	0.	0.00
278	6.800	26.87	0.0	0.0	0.0	5.49	11.60	0.00	11.60	0.00	1.62	0.05	0.10	1.78	0.00	0.0	0.0	0.	0.00
279	6.700	26.95	0.0	0.0	0.0	5.53	11.74	0.00	11.74	0.00	1.66	0.05	0.10	1.81	0.00	0.0	0.0	0.	0.00
280	6.600	27.04	0.0	0.0	0.0	5.57	11.86	0.00	11.86	0.00	1.69	0.05	0.11	1.85	0.00	0.0	0.0	0.	0.00
281	6.500	27.12	0.0	0.0	0.0	5.61	11.96	0.00	11.96	0.00	1.72	0.05	0.11	1.87	0.00	0.0	0.0	0.	0.00
282	6.400	27.20	0.0	0.0	0.0	5.64	12.05	0.00	12.05	0.00	1.74	0.05	0.11	1.90	0.00	0.0	0.0	0.	0.00
283	6.300	27.28	0.0	0.0	0.0	5.67	12.13	0.00	12.13	0.00	1.77	0.05	0.11	1.92	0.00	0.0	0.0	0.	0.00
284	6.200	27.36	0.0	0.0	0.0	5.70	12.19	0.00	12.19	0.00	1.79	0.05	0.11	1.95	0.00	0.0	0.0	0.	0.00
285	6.100	27.45	0.0	0.0	0.0	5.72	12.25	0.00	12.25	0.00	1.81	0.04	0.11	1.97	0.00	0.0	0.0	0.	0.00
286	6.000	27.53	0.0	0.0	0.0	5.74	12.29	0.00	12.29	0.00	1.83	0.04	0.11	1.98	0.00	0.0	0.0	0.	0.00
287	5.900	27.61	0.0	0.0	0.0	5.77	12.34	0.00	12.34	0.00	1.85	0.04	0.11	2.00	0.00	0.0	0.0	0.	0.00
288	5.800	27.69	0.0	0.0	0.0	5.78	12.37	0.00	12.37	0.00	1.86	0.04	0.11	2.02	0.00	0.0	0.0	0.	0.00
289	5.700	27.77	0.0	0.0	0.0	5.79	12.40	0.00	12.40	0.00	1.88	0.04	0.11	2.03	0.00	0.0	0.0	0.	0.00
290	5.600	27.85	0.0	0.0	0.0	5.78	12.43	0.00	12.43	0.00	1.89	0.04	0.11	2.05	0.00	0.0	0.0	0.	0.00
291	5.500	27.94	0.0	0.0	0.0	5.76	12.45	0.00	12.45	0.00	1.90	0.04	0.11	2.06	0.00	0.0	0.0	0.	0.00
292	5.400	28.02	0.0	0.0	0.0	5.74	12.47	0.00	12.47	0.00	1.92	0.04	0.11	2.07	0.00	0.0	0.0	0.	0.00
293	5.300	28.10	0.0	0.0	0.0	5.73	12.49	0.00	12.49	0.00	1.93	0.04	0.11	2.08	0.00	0.0	0.0	0.	0.00
294	5.200	28.18	0.0	0.0	0.0	5.71	12.50	0.00	12.50	0.00	1.94	0.04	0.12	2.09	0.00	0.0	0.0	0.	0.00

295	5.100	28.26	0.0	0.0	0.0	5.69	12.51	0.00	12.51	0.00	1.95	0.04	0.12	2.10	0.00	0.0	0.0	0.	0.00
296	5.000	28.35	0.0	0.0	0.0	5.67	12.52	0.00	12.52	0.00	1.96	0.04	0.12	2.11	0.00	0.0	0.0	0.	0.00
297	4.900	28.43	0.0	0.0	0.0	5.65	12.53	0.00	12.53	0.00	1.96	0.04	0.12	2.12	0.00	0.0	0.0	0.	0.00
298	4.800	28.51	0.0	0.0	0.0	5.63	12.53	0.00	12.53	0.00	1.97	0.04	0.12	2.13	0.00	0.0	0.0	0.	0.00
299	4.700	28.59	0.0	0.0	0.0	5.62	12.54	0.00	12.54	0.00	1.98	0.04	0.12	2.14	0.00	0.0	0.0	0.	0.00
300	4.600	28.67	0.0	0.0	0.0	5.60	12.54	0.00	12.54	0.00	1.99	0.04	0.12	2.15	0.00	0.0	0.0	0.	0.00
301	4.500	28.75	0.0	0.0	0.0	5.58	12.54	0.00	12.54	0.00	2.00	0.04	0.12	2.15	0.00	0.0	0.0	0.	0.00
302	4.400	28.84	0.0	0.0	0.0	5.56	12.54	0.00	12.54	0.00	2.00	0.04	0.12	2.16	0.00	0.0	0.0	0.	0.00
303	4.300	28.92	0.0	0.0	0.0	5.54	12.54	0.00	12.54	0.00	2.01	0.04	0.12	2.17	0.00	0.0	0.0	0.	0.00
304	4.200	29.00	0.0	0.0	0.0	5.53	12.54	0.00	12.54	0.00	2.01	0.04	0.12	2.17	0.00	0.0	0.0	0.	0.00
305	4.100	29.05	0.0	0.0	0.0	4.12	20.07	0.00	20.07	0.00	2.01	0.68	0.41	3.10	0.00	1.6	0.0	0.	0.00
306	4.000	29.11	0.0	0.0	0.0	3.70	18.74	0.00	18.74	0.00	2.01	0.59	0.47	3.08	0.00	3.1	0.0	0.	0.00
307	3.900	29.16	0.0	0.0	0.0	3.58	17.57	0.00	17.57	0.00	2.01	0.52	0.52	3.05	0.00	4.7	0.0	0.	0.00
308	3.800	29.22	0.0	0.0	0.0	3.60	16.53	0.00	16.53	0.00	2.01	0.45	0.56	3.03	0.00	6.3	0.0	0.	0.00
309	3.700	29.27	0.0	0.0	0.0	3.67	15.60	0.00	15.60	0.00	2.01	0.40	0.59	3.00	0.00	7.9	0.0	0.	0.00
310	3.600	29.33	0.0	0.0	0.0	3.76	14.78	0.00	14.78	0.00	2.01	0.35	0.61	2.98	0.00	9.4	0.0	0.	0.00
311	3.500	29.38	0.0	0.0	0.0	3.85	14.05	0.00	14.05	0.00	2.01	0.31	0.62	2.95	0.00	11.0	0.0	0.	0.00
312	3.400	29.44	0.0	0.0	0.0	3.94	13.39	0.00	13.39	0.00	2.01	0.28	0.63	2.92	0.00	12.6	0.0	0.	0.00
313	3.300	29.49	0.0	0.0	0.0	4.03	12.80	0.00	12.80	0.00	2.02	0.25	0.63	2.89	0.00	14.1	0.0	0.	0.00
314	3.200	29.55	0.0	0.0	0.0	4.11	12.27	0.00	12.27	0.00	2.02	0.23	0.62	2.86	0.00	15.7	0.0	0.	0.00
315	3.100	29.60	0.0	0.0	0.0	4.18	11.79	0.00	11.79	0.00	2.02	0.20	0.61	2.83	0.00	17.3	0.0	0.	0.00
316	3.000	29.66	0.0	0.0	0.0	4.26	11.35	0.00	11.35	0.00	2.02	0.19	0.60	2.80	0.00	18.9	0.0	0.	0.00
317	2.900	29.71	0.0	0.0	0.0	4.32	10.96	0.00	10.96	0.00	2.02	0.17	0.58	2.77	0.00	20.4	0.0	0.	0.00
318	2.800	29.77	0.0	0.0	0.0	4.39	10.60	0.00	10.60	0.00	2.02	0.16	0.56	2.74	0.00	22.0	0.0	0.	0.00
319	2.700	29.82	0.0	0.0	0.0	4.45	10.28	0.00	10.28	0.00	2.02	0.14	0.54	2.70	0.00	23.6	0.0	0.	0.00
320	2.600	29.88	0.0	0.0	0.0	4.51	9.98	0.00	9.98	0.00	2.02	0.13	0.52	2.67	0.00	25.1	0.0	0.	0.00
321	2.500	29.93	0.0	0.0	0.0	4.56	9.71	0.00	9.71	0.00	2.02	0.12	0.49	2.64	0.00	26.7	0.0	0.	0.00
322	2.400	29.99	0.0	0.0	0.0	4.62	9.46	0.00	9.46	0.00	2.02	0.12	0.47	2.60	0.00	28.3	0.0	0.	0.00
323	2.300	30.04	0.0	0.0	0.0	4.67	9.24	0.00	9.24	0.00	2.02	0.11	0.44	2.57	0.00	29.9	0.0	0.	0.00
324	2.200	30.10	0.0	0.0	0.0	4.72	9.03	0.00	9.03	0.00	2.02	0.10	0.41	2.53	0.00	31.4	0.0	0.	0.00
325	2.100	30.15	0.0	0.0	0.0	4.76	8.84	0.00	8.84	0.00	2.02	0.10	0.38	2.50	0.00	33.0	0.0	0.	0.00
326	2.000	30.20	0.0	0.0	0.0	4.81	8.66	0.00	8.66	0.00	2.02	0.09	0.35	2.46	0.00	34.6	0.0	0.	0.00
327	1.900	30.26	0.0	0.0	0.0	4.85	8.49	0.00	8.49	0.00	2.02	0.09	0.32	2.42	0.00	36.1	0.0	0.	0.00
328	1.800	30.31	0.0	0.0	0.0	4.90	8.34	0.00	8.34	0.00	2.02	0.08	0.28	2.39	0.00	37.7	0.0	0.	0.00
329	1.700	30.37	0.0	0.0	0.0	4.94	8.20	0.00	8.20	0.00	2.02	0.08	0.25	2.35	0.00	39.3	0.0	0.	0.00
330	1.600	30.42	0.0	0.0	0.0	4.98	8.07	0.00	8.07	0.00	2.02	0.08	0.21	2.31	0.00	40.9	0.0	0.	0.00
331	1.500	30.48	0.0	0.0	0.0	5.02	7.95	0.00	7.95	0.00	2.02	0.07	0.18	2.27	0.00	42.4	0.0	0.	0.00
332	1.400	30.53	0.0	0.0	0.0	5.06	7.84	0.00	7.84	0.00	2.02	0.07	0.14	2.23	0.00	44.0	0.0	0.	0.00
333	1.300	30.59	0.0	0.0	0.0	5.10	7.74	0.00	7.74	0.00	2.02	0.07	0.10	2.20	0.00	45.6	0.0	0.	0.00
334	1.200	30.64	0.0	0.0	0.0	5.14	7.64	0.00	7.64	0.00	2.02	0.07	0.07	2.16	0.00	47.1	0.0	0.	0.00
335	1.100	30.70	0.0	0.0	0.0	5.18	7.55	0.00	7.55	0.00	2.02	0.07	0.03	2.12	0.00	48.7	0.0	0.	0.00
336	1.000	30.75	0.0	0.0	0.0	5.22	7.46	0.00	7.46	0.00	2.02	0.06	0.00	2.09	0.00	50.3	0.0	0.	0.00
337	0.900	30.81	0.0	0.0	0.0	5.26	7.38	0.00	7.38	0.00	2.02	0.06	0.00	2.09	0.00	51.9	0.0	0.	0.00
338	0.800	30.86	0.0	0.0	0.0	5.29	7.31	0.00	7.31	0.00	2.02	0.06	0.00	2.09	0.00	53.4	0.0	0.	0.00
339	0.700	30.92	0.0	0.0	0.0	5.33	7.23	0.00	7.23	0.00	2.02	0.06	0.00	2.08	0.00	55.0	0.0	0.	0.00
340	0.600	30.97	0.0	0.0	0.0	5.37	7.17	0.00	7.17	0.00	2.02	0.06	0.00	2.08	0.00	56.6	0.0	0.	0.00
341	0.500	31.03	0.0	0.0	0.0	5.41	7.10	0.00	7.10	0.00	2.02	0.06	0.00	2.08	0.00	58.1	0.0	0.	0.00
342	0.400	31.08	0.0	0.0	0.0	5.44	7.05	0.00	7.05	0.00	2.02	0.06	0.00	2.08	0.00	59.7	0.0	0.	0.00
343	0.300	31.14	0.0	0.0	0.0	5.48	6.99	0.00	6.99	0.00	2.02	0.06	0.00	2.08	0.00	61.3	0.0	0.	0.00
344	0.200	31.19	0.0	0.0	0.0	5.51	6.94	0.00	6.94	0.00	2.02	0.06	0.00	2.08	0.00	62.9	0.0	0.	0.00

345	0.100	31.25	0.0	0.0	0.0	5.55	6.89	0.00	6.89	0.00	2.02	0.05	0.00	2.08	0.00	64.4	0.0	0.	0.00	
346	0.000	31.30	0.0	0.0	0.0	5.59	6.84	0.00	6.84	0.00	2.02	0.05	0.00	2.08	0.00	66.0	0.0	0.	0.00	

SPECIAL REPORT: Intracoastal Waterwa
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	*	CM-I *	CM-II mg/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS	CHL A	MACRO #/100mL	COLI *	NCM
420	13.300	29.80	0.0	0.0	0.0	7.37	2.19	0.00	2.19	0.00	1.10	0.03	1.70	2.83	0.00	0.0	0.0	0.	0.00	
421	13.200	29.81	0.0	0.0	0.0	7.35	2.19	0.00	2.19	0.00	1.10	0.03	1.70	2.83	0.00	0.0	0.0	0.	0.00	
422	13.100	29.81	0.0	0.0	0.0	7.32	2.18	0.00	2.18	0.00	1.10	0.03	1.70	2.83	0.00	0.0	0.0	0.	0.00	
423	13.000	29.82	0.0	0.0	0.0	7.30	2.18	0.00	2.18	0.00	1.10	0.03	1.70	2.84	0.00	0.0	0.0	0.	0.00	
424	12.900	29.82	0.0	0.0	0.0	7.27	2.17	0.00	2.17	0.00	1.10	0.03	1.70	2.84	0.00	0.0	0.0	0.	0.00	
425	12.800	29.83	0.0	0.0	0.0	7.25	2.17	0.00	2.17	0.00	1.10	0.03	1.70	2.84	0.00	0.0	0.0	0.	0.00	
426	12.700	29.83	0.0	0.0	0.0	7.22	2.16	0.00	2.16	0.00	1.10	0.03	1.70	2.84	0.00	0.0	0.0	0.	0.00	
427	12.600	29.84	0.0	0.0	0.0	7.20	2.16	0.00	2.16	0.00	1.11	0.03	1.70	2.84	0.00	0.0	0.0	0.	0.00	
428	12.500	29.84	0.0	0.0	0.0	7.17	2.16	0.00	2.16	0.00	1.11	0.03	1.71	2.85	0.00	0.0	0.0	0.	0.00	
429	12.400	29.84	0.0	0.0	0.0	7.15	2.15	0.00	2.15	0.00	1.11	0.03	1.71	2.85	0.00	0.0	0.0	0.	0.00	
430	12.300	29.85	0.0	0.0	0.0	7.12	2.15	0.00	2.15	0.00	1.11	0.04	1.71	2.85	0.00	0.0	0.0	0.	0.00	
431	12.200	29.85	0.0	0.0	0.0	7.10	2.14	0.00	2.14	0.00	1.11	0.04	1.71	2.85	0.00	0.0	0.0	0.	0.00	
432	12.100	29.86	0.0	0.0	0.0	7.07	2.14	0.00	2.14	0.00	1.11	0.04	1.71	2.85	0.00	0.0	0.0	0.	0.00	
433	12.000	29.86	0.0	0.0	0.0	7.05	2.13	0.00	2.13	0.00	1.11	0.04	1.71	2.85	0.00	0.0	0.0	0.	0.00	
434	11.900	29.87	0.0	0.0	0.0	7.03	2.13	0.00	2.13	0.00	1.11	0.04	1.71	2.86	0.00	0.0	0.0	0.	0.00	
435	11.800	29.87	0.0	0.0	0.0	7.01	2.12	0.00	2.12	0.00	1.11	0.04	1.71	2.86	0.00	0.0	0.0	0.	0.00	
436	11.700	29.88	0.0	0.0	0.0	6.98	2.12	0.00	2.12	0.00	1.11	0.04	1.71	2.86	0.00	0.0	0.0	0.	0.00	
437	11.600	29.88	0.0	0.0	0.0	6.96	2.11	0.00	2.11	0.00	1.11	0.04	1.71	2.86	0.00	0.0	0.0	0.	0.00	
438	11.500	29.89	0.0	0.0	0.0	6.94	2.11	0.00	2.11	0.00	1.11	0.04	1.71	2.86	0.00	0.0	0.0	0.	0.00	
439	11.400	29.89	0.0	0.0	0.0	6.92	2.10	0.00	2.10	0.00	1.11	0.04	1.71	2.86	0.00	0.0	0.0	0.	0.00	
440	11.300	29.89	0.0	0.0	0.0	6.89	2.10	0.00	2.10	0.00	1.11	0.04	1.71	2.87	0.00	0.0	0.0	0.	0.00	
441	11.200	29.90	0.0	0.0	0.0	6.87	2.09	0.00	2.09	0.00	1.11	0.04	1.71	2.87	0.00	0.0	0.0	0.	0.00	
442	11.100	29.90	0.0	0.0	0.0	6.85	2.09	0.00	2.09	0.00	1.12	0.04	1.71	2.87	0.00	0.0	0.0	0.	0.00	
443	11.000	29.91	0.0	0.0	0.0	6.83	2.08	0.00	2.08	0.00	1.12	0.04	1.71	2.87	0.00	0.0	0.0	0.	0.00	
444	10.900	29.91	0.0	0.0	0.0	6.81	2.08	0.00	2.08	0.00	1.12	0.04	1.71	2.87	0.00	0.0	0.0	0.	0.00	
445	10.800	29.92	0.0	0.0	0.0	6.79	2.07	0.00	2.07	0.00	1.12	0.04	1.72	2.87	0.00	0.0	0.0	0.	0.00	
446	10.700	29.92	0.0	0.0	0.0	6.77	2.07	0.00	2.07	0.00	1.12	0.04	1.72	2.87	0.00	0.0	0.0	0.	0.00	
447	10.600	29.93	0.0	0.0	0.0	6.75	2.07	0.00	2.07	0.00	1.12	0.04	1.72	2.88	0.00	0.0	0.0	0.	0.00	
448	10.500	29.93	0.0	0.0	0.0	6.73	2.06	0.00	2.06	0.00	1.12	0.04	1.72	2.88	0.00	0.0	0.0	0.	0.00	
449	10.400	29.93	0.0	0.0	0.0	6.71	2.06	0.00	2.06	0.00	1.12	0.04	1.72	2.88	0.00	0.0	0.0	0.	0.00	
450	10.300	29.94	0.0	0.0	0.0	6.69	2.05	0.00	2.05	0.00	1.12	0.04	1.72	2.88	0.00	0.0	0.0	0.	0.00	
451	10.200	29.94	0.0	0.0	0.0	6.67	2.05	0.00	2.05	0.00	1.12	0.04	1.72	2.88	0.00	0.0	0.0	0.	0.00	
452	10.100	29.95	0.0	0.0	0.0	6.65	2.04	0.00	2.04	0.00	1.12	0.04	1.72	2.88	0.00	0.0	0.0	0.	0.00	
453	10.000	29.95	0.0	0.0	0.0	6.63	2.04	0.00	2.04	0.00	1.12	0.04	1.72	2.89	0.00	0.0	0.0	0.	0.00	
454	9.900	29.96	0.0	0.0	0.0	6.61	2.03	0.00	2.03	0.00	1.12	0.04	1.72	2.89	0.00	0.0	0.0	0.	0.00	
455	9.800	29.96	0.0	0.0	0.0	6.59	2.03	0.00	2.03	0.00	1.12	0.04	1.72	2.89	0.00	0.0	0.0	0.	0.00	
456	9.700	29.97	0.0	0.0	0.0	6.57	2.03	0.00	2.03	0.00	1.12	0.04	1.72	2.89	0.00	0.0	0.0	0.	0.00	
457	9.600	29.97	0.0	0.0	0.0	6.55	2.02	0.00	2.02	0.00	1.12	0.04	1.72	2.89	0.00	0.0	0.0	0.	0.00	
458	9.500	29.97	0.0	0.0	0.0	6.54	2.02	0.00	2.02	0.00	1.13	0.04	1.72	2.89	0.00	0.0	0.0	0.	0.00	
459	9.400	29.98	0.0	0.0	0.0	6.52	2.01	0.00	2.01	0.00	1.13	0.05	1.72	2.90	0.00	0.0	0.0	0.	0.00	
460	9.300	29.98	0.0	0.0	0.0	6.50	2.01	0.00	2.01	0.00	1.13	0.05	1.73	2.90	0.00	0.0	0.0	0.	0.00	
461	9.200	29.99	0.0	0.0	0.0	6.48	2.01	0.00	2.01	0.00	1.13	0.05	1.73	2.90	0.00	0.0	0.0	0.	0.00	

462	9.100	29.99	0.0	0.0	0.0	6.46	2.00	0.00	2.00	0.00	1.13	0.05	1.73	2.90	0.00	0.0	0.0	0.	0.00
463	9.000	30.00	0.0	0.0	0.0	6.44	2.01	0.00	2.01	0.00	1.13	0.05	1.74	2.92	0.00	0.0	0.0	0.	0.00
464	8.900	30.00	0.0	0.0	0.0	6.43	2.01	0.00	2.01	0.00	1.13	0.05	1.74	2.92	0.00	0.0	0.0	0.	0.00
465	8.800	30.01	0.0	0.0	0.0	6.41	2.00	0.00	2.00	0.00	1.13	0.05	1.74	2.93	0.00	0.0	0.0	0.	0.00
466	8.700	30.01	0.0	0.0	0.0	6.39	2.00	0.00	2.00	0.00	1.13	0.05	1.74	2.93	0.00	0.0	0.0	0.	0.00
467	8.600	30.01	0.0	0.0	0.0	6.37	2.00	0.00	2.00	0.00	1.13	0.05	1.74	2.93	0.00	0.0	0.0	0.	0.00
468	8.500	30.02	0.0	0.0	0.0	6.36	1.99	0.00	1.99	0.00	1.13	0.05	1.75	2.93	0.00	0.0	0.0	0.	0.00
469	8.400	30.02	0.0	0.0	0.0	6.34	1.99	0.00	1.99	0.00	1.13	0.05	1.75	2.93	0.00	0.0	0.0	0.	0.00
470	8.300	30.03	0.0	0.0	0.0	6.32	1.98	0.00	1.98	0.00	1.13	0.05	1.75	2.93	0.00	0.0	0.0	0.	0.00
471	8.200	30.03	0.0	0.0	0.0	6.31	1.98	0.00	1.98	0.00	1.13	0.05	1.75	2.94	0.00	0.0	0.0	0.	0.00
472	8.100	30.04	0.0	0.0	0.0	6.29	1.98	0.00	1.98	0.00	1.13	0.05	1.75	2.94	0.00	0.0	0.0	0.	0.00
473	8.000	30.04	0.0	0.0	0.0	6.27	1.97	0.00	1.97	0.00	1.14	0.05	1.75	2.94	0.00	0.0	0.0	0.	0.00
474	7.900	30.05	0.0	0.0	0.0	6.26	1.97	0.00	1.97	0.00	1.14	0.05	1.75	2.94	0.00	0.0	0.0	0.	0.00
475	7.800	30.05	0.0	0.0	0.0	6.24	1.96	0.00	1.96	0.00	1.14	0.05	1.75	2.94	0.00	0.0	0.0	0.	0.00
476	7.700	30.06	0.0	0.0	0.0	6.23	1.96	0.00	1.96	0.00	1.14	0.05	1.75	2.94	0.00	0.0	0.0	0.	0.00
477	7.600	30.06	0.0	0.0	0.0	6.21	1.96	0.00	1.96	0.00	1.14	0.06	1.75	2.95	0.00	0.0	0.0	0.	0.00
478	7.500	30.06	0.0	0.0	0.0	6.20	1.95	0.00	1.95	0.00	1.14	0.06	1.75	2.95	0.00	0.0	0.0	0.	0.00
479	7.400	30.07	0.0	0.0	0.0	6.18	1.95	0.00	1.95	0.00	1.14	0.06	1.75	2.95	0.00	0.0	0.0	0.	0.00
480	7.300	30.07	0.0	0.0	0.0	6.17	1.94	0.00	1.94	0.00	1.14	0.06	1.76	2.95	0.00	0.0	0.0	0.	0.00
481	7.200	30.08	0.0	0.0	0.0	6.15	1.94	0.00	1.94	0.00	1.14	0.06	1.76	2.95	0.00	0.0	0.0	0.	0.00
482	7.100	30.08	0.0	0.0	0.0	6.14	1.94	0.00	1.94	0.00	1.14	0.06	1.76	2.95	0.00	0.0	0.0	0.	0.00
483	7.000	30.09	0.0	0.0	0.0	6.12	1.93	0.00	1.93	0.00	1.14	0.06	1.76	2.96	0.00	0.0	0.0	0.	0.00
484	6.900	30.09	0.0	0.0	0.0	6.11	1.93	0.00	1.93	0.00	1.14	0.06	1.76	2.96	0.00	0.0	0.0	0.	0.00
485	6.800	30.10	0.0	0.0	0.0	6.09	1.93	0.00	1.93	0.00	1.14	0.06	1.76	2.96	0.00	0.0	0.0	0.	0.00
486	6.700	30.10	0.0	0.0	0.0	6.08	1.92	0.00	1.92	0.00	1.14	0.06	1.76	2.96	0.00	0.0	0.0	0.	0.00
487	6.600	30.10	0.0	0.0	0.0	6.06	1.92	0.00	1.92	0.00	1.14	0.06	1.76	2.96	0.00	0.0	0.0	0.	0.00
488	6.500	30.11	0.0	0.0	0.0	6.05	1.92	0.00	1.92	0.00	1.14	0.06	1.76	2.96	0.00	0.0	0.0	0.	0.00
489	6.400	30.11	0.0	0.0	0.0	6.04	1.91	0.00	1.91	0.00	1.15	0.06	1.76	2.96	0.00	0.0	0.0	0.	0.00
490	6.300	30.12	0.0	0.0	0.0	6.02	1.91	0.00	1.91	0.00	1.15	0.06	1.76	2.97	0.00	0.0	0.0	0.	0.00
491	6.200	30.12	0.0	0.0	0.0	6.01	1.91	0.00	1.91	0.00	1.15	0.06	1.76	2.97	0.00	0.0	0.0	0.	0.00
492	6.100	30.13	0.0	0.0	0.0	6.00	1.90	0.00	1.90	0.00	1.15	0.06	1.77	2.97	0.00	0.0	0.0	0.	0.00
493	6.000	30.13	0.0	0.0	0.0	5.98	1.90	0.00	1.90	0.00	1.15	0.06	1.77	2.97	0.00	0.0	0.0	0.	0.00
494	5.900	30.14	0.0	0.0	0.0	5.97	1.89	0.00	1.89	0.00	1.15	0.06	1.77	2.97	0.00	0.0	0.0	0.	0.00
495	5.800	30.14	0.0	0.0	0.0	5.96	1.89	0.00	1.89	0.00	1.15	0.06	1.77	2.97	0.00	0.0	0.0	0.	0.00
496	5.700	30.14	0.0	0.0	0.0	5.94	1.89	0.00	1.89	0.00	1.15	0.06	1.77	2.98	0.00	0.0	0.0	0.	0.00
497	5.600	30.15	0.0	0.0	0.0	5.93	1.88	0.00	1.88	0.00	1.15	0.06	1.77	2.98	0.00	0.0	0.0	0.	0.00
498	5.500	30.15	0.0	0.0	0.0	5.92	1.88	0.00	1.88	0.00	1.15	0.06	1.77	2.98	0.00	0.0	0.0	0.	0.00
499	5.400	30.16	0.0	0.0	0.0	5.91	1.88	0.00	1.88	0.00	1.15	0.06	1.77	2.98	0.00	0.0	0.0	0.	0.00
500	5.300	30.16	0.0	0.0	0.0	5.90	1.87	0.00	1.87	0.00	1.15	0.06	1.77	2.98	0.00	0.0	0.0	0.	0.00
501	5.200	30.17	0.0	0.0	0.0	5.88	1.87	0.00	1.87	0.00	1.15	0.06	1.77	2.98	0.00	0.0	0.0	0.	0.00
502	5.100	30.17	0.0	0.0	0.0	5.87	1.87	0.00	1.87	0.00	1.15	0.06	1.77	2.99	0.00	0.0	0.0	0.	0.00
503	5.000	30.18	0.0	0.0	0.0	5.86	1.87	0.00	1.87	0.00	1.15	0.06	1.78	2.99	0.00	0.0	0.0	0.	0.00
504	4.900	30.18	0.0	0.0	0.0	5.85	1.86	0.00	1.86	0.00	1.15	0.06	1.78	2.99	0.00	0.0	0.0	0.	0.00
505	4.800	30.19	0.0	0.0	0.0	5.84	1.86	0.00	1.86	0.00	1.16	0.06	1.78	2.99	0.00	0.0	0.0	0.	0.00
506	4.700	30.19	0.0	0.0	0.0	5.82	1.86	0.00	1.86	0.00	1.16	0.06	1.78	2.99	0.00	0.0	0.0	0.	0.00
507	4.600	30.19	0.0	0.0	0.0	5.81	1.85	0.00	1.85	0.00	1.16	0.06	1.78	2.99	0.00	0.0	0.0	0.	0.00
508	4.500	30.20	0.0	0.0	0.0	5.80	1.85	0.00	1.85	0.00	1.16	0.06	1.78	3.00	0.00	0.0	0.0	0.	0.00
509	4.400	30.20	0.0	0.0	0.0	5.79	1.85	0.00	1.85	0.00	1.16	0.06	1.78	3.00	0.00	0.0	0.0	0.	0.00
510	4.300	30.21	0.0	0.0	0.0	5.78	1.84	0.00	1.84	0.00	1.16	0.06	1.78	3.00	0.00	0.0	0.0	0.	0.00
511	4.200	30.21	0.0	0.0	0.0	5.77	1.84	0.00	1.84	0.00	1.16	0.06	1.78	3.00	0.00	0.0	0.0	0.	0.00

512	4.100	30.22	0.0	0.0	0.0	5.76	1.84	0.00	1.84	0.00	1.16	0.06	1.78	3.00	0.00	0.0	0.0	0.	0.00
513	4.000	30.22	0.0	0.0	0.0	5.75	1.83	0.00	1.83	0.00	1.16	0.06	1.78	3.00	0.00	0.0	0.0	0.	0.00
514	3.900	30.23	0.0	0.0	0.0	5.74	1.83	0.00	1.83	0.00	1.16	0.06	1.78	3.01	0.00	0.0	0.0	0.	0.00
515	3.800	30.23	0.0	0.0	0.0	5.73	1.83	0.00	1.83	0.00	1.16	0.06	1.79	3.01	0.00	0.0	0.0	0.	0.00
516	3.700	30.23	0.0	0.0	0.0	5.72	1.82	0.00	1.82	0.00	1.16	0.06	1.79	3.01	0.00	0.0	0.0	0.	0.00
517	3.600	30.24	0.0	0.0	0.0	5.71	1.82	0.00	1.82	0.00	1.16	0.06	1.79	3.01	0.00	0.0	0.0	0.	0.00
518	3.500	30.24	0.0	0.0	0.0	5.69	1.82	0.00	1.82	0.00	1.16	0.06	1.79	3.01	0.00	0.0	0.0	0.	0.00
519	3.400	30.25	0.0	0.0	0.0	5.68	1.82	0.00	1.82	0.00	1.16	0.06	1.79	3.01	0.00	0.0	0.0	0.	0.00
520	3.300	30.25	0.0	0.0	0.0	5.67	1.81	0.00	1.81	0.00	1.16	0.06	1.79	3.01	0.00	0.0	0.0	0.	0.00
521	3.200	30.26	0.0	0.0	0.0	5.67	1.81	0.00	1.81	0.00	1.16	0.06	1.79	3.02	0.00	0.0	0.0	0.	0.00
522	3.100	30.26	0.0	0.0	0.0	5.66	1.81	0.00	1.81	0.00	1.17	0.06	1.79	3.02	0.00	0.0	0.0	0.	0.00
523	3.000	30.27	0.0	0.0	0.0	5.65	1.80	0.00	1.80	0.00	1.17	0.06	1.79	3.02	0.00	0.0	0.0	0.	0.00
524	2.900	30.27	0.0	0.0	0.0	5.64	1.80	0.00	1.80	0.00	1.17	0.06	1.79	3.02	0.00	0.0	0.0	0.	0.00
525	2.800	30.27	0.0	0.0	0.0	5.63	1.80	0.00	1.80	0.00	1.17	0.06	1.79	3.02	0.00	0.0	0.0	0.	0.00
526	2.700	30.28	0.0	0.0	0.0	5.62	1.80	0.00	1.80	0.00	1.17	0.06	1.80	3.02	0.00	0.0	0.0	0.	0.00
527	2.600	30.28	0.0	0.0	0.0	5.61	1.79	0.00	1.79	0.00	1.17	0.06	1.80	3.03	0.00	0.0	0.0	0.	0.00
528	2.500	30.29	0.0	0.0	0.0	5.60	1.79	0.00	1.79	0.00	1.17	0.06	1.80	3.03	0.00	0.0	0.0	0.	0.00
529	2.400	30.29	0.0	0.0	0.0	5.59	1.79	0.00	1.79	0.00	1.17	0.06	1.80	3.03	0.00	0.0	0.0	0.	0.00
530	2.300	30.30	0.0	0.0	0.0	5.58	1.79	0.00	1.79	0.00	1.17	0.06	1.80	3.03	0.00	0.0	0.0	0.	0.00
531	2.200	30.30	0.0	0.0	0.0	5.57	1.78	0.00	1.78	0.00	1.17	0.06	1.80	3.03	0.00	0.0	0.0	0.	0.00
532	2.100	30.31	0.0	0.0	0.0	5.56	1.78	0.00	1.78	0.00	1.17	0.06	1.80	3.03	0.00	0.0	0.0	0.	0.00
533	2.000	30.31	0.0	0.0	0.0	5.55	1.78	0.00	1.78	0.00	1.17	0.06	1.80	3.04	0.00	0.0	0.0	0.	0.00
534	1.900	30.31	0.0	0.0	0.0	5.55	1.77	0.00	1.77	0.00	1.17	0.06	1.80	3.04	0.00	0.0	0.0	0.	0.00
535	1.800	30.32	0.0	0.0	0.0	5.54	1.77	0.00	1.77	0.00	1.17	0.06	1.80	3.04	0.00	0.0	0.0	0.	0.00
536	1.700	30.32	0.0	0.0	0.0	5.53	1.77	0.00	1.77	0.00	1.17	0.06	1.80	3.04	0.00	0.0	0.0	0.	0.00
537	1.600	30.33	0.0	0.0	0.0	5.52	1.77	0.00	1.77	0.00	1.17	0.06	1.81	3.04	0.00	0.0	0.0	0.	0.00
538	1.500	30.33	0.0	0.0	0.0	5.51	1.76	0.00	1.76	0.00	1.18	0.06	1.81	3.04	0.00	0.0	0.0	0.	0.00
539	1.400	30.34	0.0	0.0	0.0	5.50	1.76	0.00	1.76	0.00	1.18	0.06	1.81	3.05	0.00	0.0	0.0	0.	0.00
540	1.300	30.34	0.0	0.0	0.0	5.50	1.76	0.00	1.76	0.00	1.18	0.06	1.81	3.05	0.00	0.0	0.0	0.	0.00
541	1.200	30.35	0.0	0.0	0.0	5.49	1.76	0.00	1.76	0.00	1.18	0.06	1.81	3.05	0.00	0.0	0.0	0.	0.00
542	1.100	30.35	0.0	0.0	0.0	5.48	1.75	0.00	1.75	0.00	1.18	0.06	1.81	3.05	0.00	0.0	0.0	0.	0.00
543	1.000	30.36	0.0	0.0	0.0	5.47	1.75	0.00	1.75	0.00	1.18	0.06	1.81	3.05	0.00	0.0	0.0	0.	0.00
544	0.900	30.36	0.0	0.0	0.0	5.46	1.75	0.00	1.75	0.00	1.18	0.06	1.81	3.05	0.00	0.0	0.0	0.	0.00
545	0.800	30.36	0.0	0.0	0.0	5.46	1.75	0.00	1.75	0.00	1.18	0.06	1.81	3.05	0.00	0.0	0.0	0.	0.00
546	0.700	30.37	0.0	0.0	0.0	5.45	1.74	0.00	1.74	0.00	1.18	0.06	1.81	3.06	0.00	0.0	0.0	0.	0.00
547	0.600	30.37	0.0	0.0	0.0	5.44	1.74	0.00	1.74	0.00	1.18	0.06	1.81	3.06	0.00	0.0	0.0	0.	0.00
548	0.500	30.38	0.0	0.0	0.0	5.43	1.74	0.00	1.74	0.00	1.18	0.06	1.82	3.06	0.00	0.0	0.0	0.	0.00
549	0.400	30.38	0.0	0.0	0.0	5.43	1.74	0.00	1.74	0.00	1.18	0.06	1.82	3.06	0.00	0.0	0.0	0.	0.00
550	0.300	30.39	0.0	0.0	0.0	5.42	1.77	0.00	1.77	0.00	1.18	0.07	1.84	3.09	0.00	0.0	0.0	0.	0.00
551	0.200	30.39	0.0	0.0	0.0	5.41	1.76	0.00	1.76	0.00	1.18	0.07	1.84	3.09	0.00	0.0	0.0	0.	0.00
552	0.100	30.40	0.0	0.0	0.0	5.40	1.76	0.00	1.76	0.00	1.18	0.07	1.84	3.10	0.00	0.0	0.0	0.	0.00
553	0.000	30.40	0.0	0.0	0.0	5.39	1.76	0.00	1.76	0.00	1.18	0.07	1.84	3.10	0.00	0.0	0.0	0.	0.00

SPECIAL REPORT: Bayou Plaquemine
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	*	CM-I *	CM-II mg/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS	CHL A #/100mL	MACRO *	COLI	NCM
710	11.800	29.10	0.0	0.0	0.0	4.36	5.20	0.00	5.20	0.00	1.60	0.00	1.59	3.19	0.00	57.5	0.0	0.	0.00	
711	11.700	29.10	0.0	0.0	0.0	4.60	5.47	0.00	5.47	0.00	1.60	0.00	1.58	3.18	0.00	57.0	0.0	0.	0.00	

712	11.600	29.11	0.0	0.0	0.0	4.83	5.74	0.00	5.74	0.00	1.59	0.01	1.57	3.17	0.00	56.5	0.0	0.	0.00
713	11.500	29.11	0.0	0.0	0.0	5.05	6.01	0.00	6.01	0.00	1.59	0.01	1.56	3.16	0.00	56.1	0.0	0.	0.00
714	11.400	29.11	0.0	0.0	0.0	5.26	6.27	0.00	6.27	0.00	1.59	0.01	1.55	3.15	0.00	55.6	0.0	0.	0.00
715	11.300	29.11	0.0	0.0	0.0	5.45	6.53	0.00	6.53	0.00	1.59	0.01	1.54	3.14	0.00	55.1	0.0	0.	0.00
716	11.200	29.11	0.0	0.0	0.0	5.64	6.79	0.00	6.79	0.00	1.59	0.01	1.53	3.13	0.00	54.6	0.0	0.	0.00
717	11.100	29.11	0.0	0.0	0.0	5.81	7.05	0.00	7.05	0.00	1.58	0.01	1.52	3.12	0.00	54.1	0.0	0.	0.00
718	11.000	29.12	0.0	0.0	0.0	5.98	7.30	0.00	7.30	0.00	1.58	0.02	1.51	3.11	0.00	53.6	0.0	0.	0.00
719	10.900	29.12	0.0	0.0	0.0	6.13	7.56	0.00	7.56	0.00	1.58	0.02	1.50	3.10	0.00	53.1	0.0	0.	0.00
720	10.800	29.12	0.0	0.0	0.0	6.27	7.81	0.00	7.81	0.00	1.58	0.02	1.49	3.09	0.00	52.6	0.0	0.	0.00
721	10.700	29.12	0.0	0.0	0.0	6.41	8.06	0.00	8.06	0.00	1.58	0.02	1.48	3.08	0.00	52.2	0.0	0.	0.00
722	10.600	29.12	0.0	0.0	0.0	6.54	8.30	0.00	8.30	0.00	1.58	0.02	1.47	3.07	0.00	51.7	0.0	0.	0.00
723	10.500	29.12	0.0	0.0	0.0	6.66	8.55	0.00	8.55	0.00	1.57	0.02	1.46	3.06	0.00	51.2	0.0	0.	0.00
724	10.400	29.13	0.0	0.0	0.0	6.77	8.79	0.00	8.79	0.00	1.57	0.02	1.45	3.05	0.00	50.7	0.0	0.	0.00
725	10.300	29.13	0.0	0.0	0.0	6.87	9.03	0.00	9.03	0.00	1.57	0.03	1.44	3.04	0.00	50.2	0.0	0.	0.00
726	10.200	29.13	0.0	0.0	0.0	6.96	9.27	0.00	9.27	0.00	1.57	0.03	1.43	3.03	0.00	49.7	0.0	0.	0.00
727	10.100	29.13	0.0	0.0	0.0	7.05	9.51	0.00	9.51	0.00	1.57	0.03	1.42	3.02	0.00	49.2	0.0	0.	0.00
728	10.000	29.13	0.0	0.0	0.0	7.13	9.74	0.00	9.74	0.00	1.56	0.03	1.42	3.01	0.00	48.7	0.0	0.	0.00
729	9.900	29.13	0.0	0.0	0.0	7.20	9.98	0.00	9.98	0.00	1.56	0.03	1.41	3.00	0.00	48.3	0.0	0.	0.00
730	9.800	29.14	0.0	0.0	0.0	7.27	10.21	0.00	10.21	0.00	1.56	0.03	1.40	2.99	0.00	47.8	0.0	0.	0.00
731	9.700	29.14	0.0	0.0	0.0	7.33	10.44	0.00	10.44	0.00	1.56	0.03	1.39	2.98	0.00	47.3	0.0	0.	0.00
732	9.600	29.14	0.0	0.0	0.0	7.39	10.66	0.00	10.66	0.00	1.56	0.03	1.38	2.97	0.00	46.8	0.0	0.	0.00
733	9.500	29.14	0.0	0.0	0.0	7.44	10.89	0.00	10.89	0.00	1.56	0.04	1.37	2.97	0.00	46.3	0.0	0.	0.00
734	9.400	29.14	0.0	0.0	0.0	7.48	11.11	0.00	11.11	0.00	1.55	0.04	1.37	2.96	0.00	45.8	0.0	0.	0.00
735	9.300	29.14	0.0	0.0	0.0	7.52	11.33	0.00	11.33	0.00	1.55	0.04	1.36	2.95	0.00	45.3	0.0	0.	0.00
736	9.200	29.15	0.0	0.0	0.0	7.56	11.55	0.00	11.55	0.00	1.55	0.04	1.35	2.94	0.00	44.8	0.0	0.	0.00
737	9.100	29.15	0.0	0.0	0.0	7.59	11.77	0.00	11.77	0.00	1.55	0.04	1.34	2.93	0.00	44.4	0.0	0.	0.00
738	9.000	29.15	0.0	0.0	0.0	7.61	11.99	0.00	11.99	0.00	1.55	0.04	1.34	2.92	0.00	43.9	0.0	0.	0.00
739	8.900	29.15	0.0	0.0	0.0	7.40	13.59	0.00	13.59	0.00	1.55	0.35	1.36	3.25	0.00	43.4	0.0	0.	0.00
740	8.800	29.15	0.0	0.0	0.0	7.38	13.78	0.00	13.78	0.00	1.55	0.34	1.36	3.24	0.00	42.9	0.0	0.	0.00
741	8.700	29.15	0.0	0.0	0.0	7.37	13.96	0.00	13.96	0.00	1.54	0.34	1.35	3.24	0.00	42.4	0.0	0.	0.00
742	8.600	29.16	0.0	0.0	0.0	7.36	14.14	0.00	14.14	0.00	1.54	0.33	1.35	3.23	0.00	41.9	0.0	0.	0.00
743	8.500	29.16	0.0	0.0	0.0	7.34	14.33	0.00	14.33	0.00	1.54	0.33	1.35	3.22	0.00	41.4	0.0	0.	0.00
744	8.400	29.16	0.0	0.0	0.0	7.32	14.51	0.00	14.51	0.00	1.54	0.32	1.35	3.22	0.00	40.9	0.0	0.	0.00
745	8.300	29.16	0.0	0.0	0.0	7.30	14.68	0.00	14.68	0.00	1.54	0.32	1.35	3.21	0.00	40.5	0.0	0.	0.00
746	8.200	29.16	0.0	0.0	0.0	7.27	14.86	0.00	14.86	0.00	1.54	0.32	1.35	3.20	0.00	40.0	0.0	0.	0.00
747	8.100	29.16	0.0	0.0	0.0	7.25	15.04	0.00	15.04	0.00	1.53	0.31	1.35	3.19	0.00	39.5	0.0	0.	0.00
748	8.000	29.17	0.0	0.0	0.0	7.22	15.21	0.00	15.21	0.00	1.53	0.31	1.35	3.19	0.00	39.0	0.0	0.	0.00
749	7.900	29.17	0.0	0.0	0.0	7.19	15.38	0.00	15.38	0.00	1.53	0.30	1.35	3.18	0.00	38.5	0.0	0.	0.00
750	7.800	29.17	0.0	0.0	0.0	7.16	15.56	0.00	15.56	0.00	1.53	0.30	1.34	3.17	0.00	38.0	0.0	0.	0.00
751	7.700	29.17	0.0	0.0	0.0	7.13	15.73	0.00	15.73	0.00	1.53	0.30	1.34	3.17	0.00	37.5	0.0	0.	0.00
752	7.600	29.17	0.0	0.0	0.0	7.09	15.90	0.00	15.90	0.00	1.53	0.29	1.34	3.16	0.00	37.0	0.0	0.	0.00
753	7.500	29.17	0.0	0.0	0.0	7.06	16.06	0.00	16.06	0.00	1.52	0.29	1.34	3.15	0.00	36.6	0.0	0.	0.00
754	7.400	29.18	0.0	0.0	0.0	7.02	16.23	0.00	16.23	0.00	1.52	0.28	1.34	3.15	0.00	36.1	0.0	0.	0.00
755	7.300	29.18	0.0	0.0	0.0	6.99	16.40	0.00	16.40	0.00	1.52	0.28	1.34	3.14	0.00	35.6	0.0	0.	0.00
756	7.200	29.18	0.0	0.0	0.0	6.95	16.56	0.00	16.56	0.00	1.52	0.28	1.34	3.14	0.00	35.1	0.0	0.	0.00
757	7.100	29.18	0.0	0.0	0.0	6.91	16.72	0.00	16.72	0.00	1.52	0.27	1.34	3.13	0.00	34.6	0.0	0.	0.00
758	7.000	29.18	0.0	0.0	0.0	6.86	16.88	0.00	16.88	0.00	1.52	0.27	1.34	3.12	0.00	34.1	0.0	0.	0.00
759	6.900	29.18	0.0	0.0	0.0	6.82	17.04	0.00	17.04	0.00	1.51	0.27	1.34	3.12	0.00	33.6	0.0	0.	0.00
760	6.800	29.19	0.0	0.0	0.0	6.78	17.20	0.00	17.20	0.00	1.51	0.26	1.34	3.11	0.00	33.1	0.0	0.	0.00
761	6.700	29.19	0.0	0.0	0.0	6.73	17.36	0.00	17.36	0.00	1.51	0.26	1.33	3.11	0.00	32.7	0.0	0.	0.00

762	6.600	29.19	0.0	0.0	0.0	6.69	17.52	0.00	17.52	0.00	1.51	0.26	1.33	3.10	0.00	32.2	0.0	0.	0.00
763	6.500	29.19	0.0	0.0	0.0	6.64	17.67	0.00	17.67	0.00	1.51	0.25	1.33	3.10	0.00	31.7	0.0	0.	0.00
764	6.400	29.19	0.0	0.0	0.0	6.59	17.83	0.00	17.83	0.00	1.51	0.25	1.33	3.09	0.00	31.2	0.0	0.	0.00
765	6.300	29.19	0.0	0.0	0.0	6.54	17.98	0.00	17.98	0.00	1.50	0.25	1.33	3.09	0.00	30.7	0.0	0.	0.00
766	6.200	29.20	0.0	0.0	0.0	6.49	18.13	0.00	18.13	0.00	1.50	0.25	1.33	3.08	0.00	30.2	0.0	0.	0.00
767	6.100	29.20	0.0	0.0	0.0	6.44	18.28	0.00	18.28	0.00	1.50	0.24	1.33	3.07	0.00	29.7	0.0	0.	0.00
768	6.000	29.20	0.0	0.0	0.0	6.39	18.43	0.00	18.43	0.00	1.50	0.24	1.33	3.07	0.00	29.2	0.0	0.	0.00
769	5.900	29.20	0.0	0.0	0.0	6.34	18.58	0.00	18.58	0.00	1.50	0.24	1.33	3.06	0.00	28.8	0.0	0.	0.00
770	5.800	29.20	0.0	0.0	0.0	6.28	18.73	0.00	18.73	0.00	1.50	0.24	1.33	3.06	0.00	28.3	0.0	0.	0.00
771	5.700	29.20	0.0	0.0	0.0	6.23	18.87	0.00	18.87	0.00	1.50	0.23	1.33	3.05	0.00	27.8	0.0	0.	0.00
772	5.600	29.21	0.0	0.0	0.0	6.18	19.02	0.00	19.02	0.00	1.49	0.23	1.33	3.05	0.00	27.3	0.0	0.	0.00
773	5.500	29.21	0.0	0.0	0.0	6.12	19.16	0.00	19.16	0.00	1.49	0.23	1.33	3.05	0.00	26.8	0.0	0.	0.00
774	5.400	29.21	0.0	0.0	0.0	6.06	19.31	0.00	19.31	0.00	1.49	0.22	1.33	3.04	0.00	26.3	0.0	0.	0.00
775	5.300	29.21	0.0	0.0	0.0	6.01	19.45	0.00	19.45	0.00	1.49	0.22	1.33	3.04	0.00	25.8	0.0	0.	0.00
776	5.200	29.21	0.0	0.0	0.0	5.95	19.59	0.00	19.59	0.00	1.49	0.22	1.32	3.03	0.00	25.3	0.0	0.	0.00
777	5.100	29.21	0.0	0.0	0.0	5.89	19.73	0.00	19.73	0.00	1.49	0.22	1.32	3.03	0.00	24.9	0.0	0.	0.00
778	5.000	29.22	0.0	0.0	0.0	5.83	19.87	0.00	19.87	0.00	1.48	0.22	1.32	3.02	0.00	24.4	0.0	0.	0.00
779	4.900	29.22	0.0	0.0	0.0	5.77	19.97	0.00	19.97	0.00	1.48	0.22	1.32	3.02	0.00	23.9	0.0	0.	0.00
780	4.800	29.22	0.0	0.0	0.0	5.71	20.11	0.00	20.11	0.00	1.48	0.22	1.32	3.02	0.00	23.4	0.0	0.	0.00
781	4.700	29.22	0.0	0.0	0.0	5.65	20.24	0.00	20.24	0.00	1.48	0.21	1.32	3.02	0.00	22.9	0.0	0.	0.00
782	4.600	29.22	0.0	0.0	0.0	5.59	20.39	0.00	20.39	0.00	1.48	0.21	1.32	3.01	0.00	22.4	0.0	0.	0.00
783	4.500	29.22	0.0	0.0	0.0	5.53	20.52	0.00	20.52	0.00	1.48	0.21	1.32	3.01	0.00	21.9	0.0	0.	0.00
784	4.400	29.23	0.0	0.0	0.0	5.47	20.65	0.00	20.65	0.00	1.47	0.21	1.32	3.01	0.00	21.4	0.0	0.	0.00
785	4.300	29.23	0.0	0.0	0.0	5.41	20.79	0.00	20.79	0.00	1.47	0.21	1.32	3.00	0.00	21.0	0.0	0.	0.00
786	4.200	29.23	0.0	0.0	0.0	5.35	20.92	0.00	20.92	0.00	1.47	0.20	1.32	3.00	0.00	20.5	0.0	0.	0.00
787	4.100	29.23	0.0	0.0	0.0	5.28	21.05	0.00	21.05	0.00	1.47	0.20	1.32	3.00	0.00	20.0	0.0	0.	0.00
788	4.000	29.23	0.0	0.0	0.0	5.22	21.17	0.00	21.17	0.00	1.47	0.20	1.32	2.99	0.00	19.5	0.0	0.	0.00
789	3.900	29.23	0.0	0.0	0.0	5.16	21.30	0.00	21.30	0.00	1.47	0.20	1.32	2.99	0.00	19.0	0.0	0.	0.00
790	3.800	29.24	0.0	0.0	0.0	5.10	21.43	0.00	21.43	0.00	1.46	0.20	1.33	2.99	0.00	18.5	0.0	0.	0.00
791	3.700	29.24	0.0	0.0	0.0	5.03	21.55	0.00	21.55	0.00	1.46	0.20	1.33	2.98	0.00	18.0	0.0	0.	0.00
792	3.600	29.24	0.0	0.0	0.0	4.97	21.68	0.00	21.68	0.00	1.46	0.19	1.33	2.98	0.00	17.5	0.0	0.	0.00
793	3.500	29.24	0.0	0.0	0.0	4.90	21.80	0.00	21.80	0.00	1.46	0.19	1.33	2.98	0.00	17.1	0.0	0.	0.00
794	3.400	29.24	0.0	0.0	0.0	4.84	21.92	0.00	21.92	0.00	1.46	0.19	1.33	2.98	0.00	16.6	0.0	0.	0.00
795	3.300	29.24	0.0	0.0	0.0	4.78	22.04	0.00	22.04	0.00	1.46	0.19	1.33	2.97	0.00	16.1	0.0	0.	0.00
796	3.200	29.25	0.0	0.0	0.0	4.71	22.16	0.00	22.16	0.00	1.46	0.19	1.33	2.97	0.00	15.6	0.0	0.	0.00
797	3.100	29.25	0.0	0.0	0.0	4.65	22.28	0.00	22.28	0.00	1.45	0.19	1.33	2.97	0.00	15.1	0.0	0.	0.00
798	3.000	29.25	0.0	0.0	0.0	4.58	22.40	0.00	22.40	0.00	1.45	0.18	1.33	2.96	0.00	14.6	0.0	0.	0.00
799	2.900	29.25	0.0	0.0	0.0	4.51	22.52	0.00	22.52	0.00	1.45	0.18	1.33	2.96	0.00	14.1	0.0	0.	0.00
800	2.800	29.25	0.0	0.0	0.0	4.45	22.63	0.00	22.63	0.00	1.45	0.18	1.33	2.96	0.00	13.6	0.0	0.	0.00
801	2.700	29.25	0.0	0.0	0.0	4.38	22.75	0.00	22.75	0.00	1.45	0.18	1.33	2.96	0.00	13.2	0.0	0.	0.00
802	2.600	29.26	0.0	0.0	0.0	4.32	22.86	0.00	22.86	0.00	1.45	0.18	1.33	2.96	0.00	12.7	0.0	0.	0.00
803	2.500	29.26	0.0	0.0	0.0	4.25	22.98	0.00	22.98	0.00	1.44	0.18	1.33	2.95	0.00	12.2	0.0	0.	0.00
804	2.400	29.26	0.0	0.0	0.0	4.18	23.09	0.00	23.09	0.00	1.44	0.18	1.33	2.95	0.00	11.7	0.0	0.	0.00
805	2.300	29.26	0.0	0.0	0.0	4.12	23.20	0.00	23.20	0.00	1.44	0.17	1.33	2.95	0.00	11.2	0.0	0.	0.00
806	2.200	29.26	0.0	0.0	0.0	4.05	23.31	0.00	23.31	0.00	1.44	0.17	1.34	2.95	0.00	10.7	0.0	0.	0.00
807	2.100	29.26	0.0	0.0	0.0	3.98	23.42	0.00	23.42	0.00	1.44	0.17	1.34	2.95	0.00	10.2	0.0	0.	0.00
808	2.000	29.27	0.0	0.0	0.0	3.92	23.53	0.00	23.53	0.00	1.44	0.17	1.34	2.94	0.00	9.7	0.0	0.	0.00
809	1.900	29.27	0.0	0.0	0.0	3.85	23.64	0.00	23.64	0.00	1.43	0.17	1.34	2.94	0.00	9.3	0.0	0.	0.00
810	1.800	29.27	0.0	0.0	0.0	3.78	23.75	0.00	23.75	0.00	1.43	0.17	1.34	2.94	0.00	8.8	0.0	0.	0.00
811	1.700	29.27	0.0	0.0	0.0	3.72	23.85	0.00	23.85	0.00	1.43	0.17	1.34	2.94	0.00	8.3	0.0	0.	0.00

812	1.600	29.27	0.0	0.0	0.0	3.65	23.96	0.00	23.96	0.00	1.43	0.17	1.34	2.94	0.00	7.8	0.0	0.	0.00
813	1.500	29.27	0.0	0.0	0.0	3.58	24.07	0.00	24.07	0.00	1.43	0.16	1.34	2.94	0.00	7.3	0.0	0.	0.00
814	1.400	29.28	0.0	0.0	0.0	3.51	24.17	0.00	24.17	0.00	1.43	0.16	1.34	2.94	0.00	6.8	0.0	0.	0.00
815	1.300	29.28	0.0	0.0	0.0	3.45	24.27	0.00	24.27	0.00	1.43	0.16	1.35	2.93	0.00	6.3	0.0	0.	0.00
816	1.200	29.28	0.0	0.0	0.0	3.38	24.38	0.00	24.38	0.00	1.42	0.16	1.35	2.93	0.00	5.8	0.0	0.	0.00
817	1.100	29.28	0.0	0.0	0.0	3.31	24.48	0.00	24.48	0.00	1.42	0.16	1.35	2.93	0.00	5.4	0.0	0.	0.00
818	1.000	29.28	0.0	0.0	0.0	3.24	24.58	0.00	24.58	0.00	1.42	0.16	1.35	2.93	0.00	4.9	0.0	0.	0.00
819	0.900	29.28	0.0	0.0	0.0	3.18	24.68	0.00	24.68	0.00	1.42	0.16	1.35	2.93	0.00	4.4	0.0	0.	0.00
820	0.800	29.29	0.0	0.0	0.0	3.11	24.78	0.00	24.78	0.00	1.42	0.16	1.35	2.93	0.00	3.9	0.0	0.	0.00
821	0.700	29.29	0.0	0.0	0.0	3.04	24.88	0.00	24.88	0.00	1.42	0.16	1.36	2.93	0.00	3.4	0.0	0.	0.00
822	0.600	29.29	0.0	0.0	0.0	2.97	24.98	0.00	24.98	0.00	1.41	0.16	1.36	2.93	0.00	2.9	0.0	0.	0.00
823	0.500	29.29	0.0	0.0	0.0	2.91	25.07	0.00	25.07	0.00	1.41	0.16	1.36	2.93	0.00	2.4	0.0	0.	0.00
824	0.400	29.29	0.0	0.0	0.0	2.84	25.17	0.00	25.17	0.00	1.41	0.15	1.36	2.93	0.00	1.9	0.0	0.	0.00
825	0.300	29.29	0.0	0.0	0.0	2.77	25.27	0.00	25.27	0.00	1.41	0.15	1.36	2.93	0.00	1.5	0.0	0.	0.00
826	0.200	29.30	0.0	0.0	0.0	2.70	25.36	0.00	25.36	0.00	1.41	0.15	1.37	2.93	0.00	1.0	0.0	0.	0.00
827	0.100	29.30	0.0	0.0	0.0	2.64	25.46	0.00	25.46	0.00	1.41	0.15	1.37	2.93	0.00	0.5	0.0	0.	0.00
828	0.000	29.30	0.0	0.0	0.0	2.57	25.55	0.00	25.55	0.00	1.41	0.15	1.37	2.93	0.00	0.0	0.0	0.	0.00

SPECIAL REPORT: Upper Grand River #1
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS	CHL A *	MACRO	COLI #/100mL	NCM
879	12.300	31.49	0.0	0.0	0.0	3.16	15.77	0.00	15.77	0.00	1.40	0.03	1.60	3.03	0.00	32.1	0.0	0.	0.00
880	12.200	31.48	0.0	0.0	0.0	3.03	15.55	0.00	15.55	0.00	1.40	0.03	1.59	3.02	0.00	32.1	0.0	0.	0.00
881	12.100	31.48	0.0	0.0	0.0	2.91	15.33	0.00	15.33	0.00	1.40	0.03	1.59	3.02	0.00	32.2	0.0	0.	0.00
882	12.000	31.47	0.0	0.0	0.0	2.79	15.11	0.00	15.11	0.00	1.40	0.03	1.59	3.01	0.00	32.3	0.0	0.	0.00
883	11.900	31.46	0.0	0.0	0.0	2.68	14.89	0.00	14.89	0.00	1.40	0.03	1.58	3.01	0.00	32.4	0.0	0.	0.00
884	11.800	31.45	0.0	0.0	0.0	2.58	14.68	0.00	14.68	0.00	1.39	0.03	1.58	3.01	0.00	32.4	0.0	0.	0.00
885	11.700	31.44	0.0	0.0	0.0	2.48	14.47	0.00	14.47	0.00	1.39	0.03	1.58	3.00	0.00	32.5	0.0	0.	0.00
886	11.600	31.43	0.0	0.0	0.0	2.39	14.27	0.00	14.27	0.00	1.39	0.04	1.57	3.00	0.00	32.6	0.0	0.	0.00
887	11.500	31.42	0.0	0.0	0.0	2.30	14.06	0.00	14.06	0.00	1.39	0.04	1.57	2.99	0.00	32.6	0.0	0.	0.00
888	11.400	31.42	0.0	0.0	0.0	2.21	13.86	0.00	13.86	0.00	1.39	0.04	1.56	2.99	0.00	32.7	0.0	0.	0.00
889	11.300	31.41	0.0	0.0	0.0	2.14	13.67	0.00	13.67	0.00	1.39	0.04	1.56	2.99	0.00	32.8	0.0	0.	0.00
890	11.200	31.40	0.0	0.0	0.0	2.06	13.47	0.00	13.47	0.00	1.39	0.04	1.56	2.98	0.00	32.9	0.0	0.	0.00
891	11.100	31.39	0.0	0.0	0.0	1.99	13.28	0.00	13.28	0.00	1.39	0.04	1.55	2.98	0.00	32.9	0.0	0.	0.00
892	11.000	31.38	0.0	0.0	0.0	1.94	13.10	0.00	13.10	0.00	1.39	0.04	1.55	2.98	0.00	33.0	0.0	0.	0.00
893	10.900	31.38	0.0	0.0	0.0	1.89	12.92	0.00	12.92	0.00	1.39	0.04	1.55	2.97	0.00	33.1	0.0	0.	0.00
894	10.800	31.37	0.0	0.0	0.0	1.86	12.75	0.00	12.75	0.00	1.38	0.04	1.54	2.97	0.00	33.1	0.0	0.	0.00
895	10.700	31.36	0.0	0.0	0.0	1.83	12.59	0.00	12.59	0.00	1.38	0.04	1.54	2.96	0.00	33.2	0.0	0.	0.00
896	10.600	31.35	0.0	0.0	0.0	1.80	12.43	0.00	12.43	0.00	1.38	0.04	1.54	2.96	0.00	33.3	0.0	0.	0.00
897	10.500	31.34	0.0	0.0	0.0	1.78	12.27	0.00	12.27	0.00	1.38	0.04	1.53	2.96	0.00	33.4	0.0	0.	0.00
898	10.400	31.33	0.0	0.0	0.0	1.77	12.12	0.00	12.12	0.00	1.38	0.04	1.53	2.95	0.00	33.4	0.0	0.	0.00
899	10.300	31.33	0.0	0.0	0.0	1.76	11.97	0.00	11.97	0.00	1.38	0.04	1.52	2.95	0.00	33.5	0.0	0.	0.00
900	10.200	31.32	0.0	0.0	0.0	1.75	11.82	0.00	11.82	0.00	1.38	0.04	1.52	2.94	0.00	33.6	0.0	0.	0.00
901	10.100	31.31	0.0	0.0	0.0	1.75	11.67	0.00	11.67	0.00	1.38	0.05	1.52	2.94	0.00	33.6	0.0	0.	0.00
902	10.000	31.30	0.0	0.0	0.0	1.74	11.53	0.00	11.53	0.00	1.38	0.05	1.51	2.94	0.00	33.7	0.0	0.	0.00
903	9.900	31.29	0.0	0.0	0.0	1.74	11.39	0.00	11.39	0.00	1.38	0.05	1.51	2.93	0.00	33.8	0.0	0.	0.00
904	9.800	31.28	0.0	0.0	0.0	1.74	11.24	0.00	11.24	0.00	1.37	0.05	1.51	2.93	0.00	33.9	0.0	0.	0.00
905	9.700	31.27	0.0	0.0	0.0	1.75	11.11	0.00	11.11	0.00	1.37	0.05	1.50	2.92	0.00	33.9	0.0	0.	0.00

906	9.600	31.27	0.0	0.0	0.0	1.75	10.97	0.00	10.97	0.00	1.37	0.05	1.50	2.92	0.00	34.0	0.0	0.	0.00
907	9.500	31.26	0.0	0.0	0.0	2.47	10.65	0.00	10.65	0.00	1.38	0.06	1.20	2.64	0.00	34.1	0.0	0.	0.00
908	9.400	31.25	0.0	0.0	0.0	2.45	10.53	0.00	10.53	0.00	1.38	0.06	1.20	2.63	0.00	34.1	0.0	0.	0.00
909	9.300	31.24	0.0	0.0	0.0	2.44	10.41	0.00	10.41	0.00	1.38	0.06	1.19	2.63	0.00	34.2	0.0	0.	0.00
910	9.200	31.23	0.0	0.0	0.0	2.42	10.30	0.00	10.30	0.00	1.37	0.06	1.19	2.63	0.00	34.3	0.0	0.	0.00
911	9.100	31.23	0.0	0.0	0.0	2.41	10.18	0.00	10.18	0.00	1.37	0.06	1.19	2.62	0.00	34.4	0.0	0.	0.00
912	9.000	31.22	0.0	0.0	0.0	2.40	10.06	0.00	10.06	0.00	1.37	0.06	1.19	2.62	0.00	34.4	0.0	0.	0.00
913	8.900	31.21	0.0	0.0	0.0	2.39	9.95	0.00	9.95	0.00	1.37	0.06	1.18	2.62	0.00	34.5	0.0	0.	0.00
914	8.800	31.20	0.0	0.0	0.0	2.38	9.84	0.00	9.84	0.00	1.37	0.06	1.18	2.61	0.00	34.6	0.0	0.	0.00
915	8.700	31.19	0.0	0.0	0.0	2.37	9.73	0.00	9.73	0.00	1.37	0.06	1.18	2.61	0.00	34.6	0.0	0.	0.00
916	8.600	31.18	0.0	0.0	0.0	2.37	9.62	0.00	9.62	0.00	1.37	0.06	1.17	2.61	0.00	34.7	0.0	0.	0.00
917	8.500	31.17	0.0	0.0	0.0	2.36	9.51	0.00	9.51	0.00	1.37	0.06	1.17	2.60	0.00	34.8	0.0	0.	0.00
918	8.400	31.17	0.0	0.0	0.0	2.36	9.40	0.00	9.40	0.00	1.37	0.06	1.17	2.60	0.00	34.9	0.0	0.	0.00
919	8.300	31.16	0.0	0.0	0.0	2.36	9.29	0.00	9.29	0.00	1.37	0.06	1.17	2.60	0.00	34.9	0.0	0.	0.00
920	8.200	31.15	0.0	0.0	0.0	2.36	9.19	0.00	9.19	0.00	1.37	0.06	1.16	2.59	0.00	35.0	0.0	0.	0.00
921	8.100	31.14	0.0	0.0	0.0	2.37	9.08	0.00	9.08	0.00	1.37	0.06	1.16	2.59	0.00	35.1	0.0	0.	0.00
922	8.000	31.13	0.0	0.0	0.0	2.37	8.98	0.00	8.98	0.00	1.37	0.06	1.16	2.59	0.00	35.1	0.0	0.	0.00
923	7.900	31.12	0.0	0.0	0.0	2.37	8.88	0.00	8.88	0.00	1.36	0.06	1.15	2.58	0.00	35.2	0.0	0.	0.00
924	7.800	31.12	0.0	0.0	0.0	2.38	8.78	0.00	8.78	0.00	1.36	0.06	1.15	2.58	0.00	35.3	0.0	0.	0.00
925	7.700	31.11	0.0	0.0	0.0	2.39	8.68	0.00	8.68	0.00	1.36	0.06	1.15	2.58	0.00	35.4	0.0	0.	0.00
926	7.600	31.10	0.0	0.0	0.0	2.39	8.58	0.00	8.58	0.00	1.36	0.06	1.15	2.57	0.00	35.4	0.0	0.	0.00
927	7.500	31.09	0.0	0.0	0.0	2.40	8.49	0.00	8.49	0.00	1.36	0.06	1.14	2.57	0.00	35.5	0.0	0.	0.00
928	7.400	31.08	0.0	0.0	0.0	2.41	8.39	0.00	8.39	0.00	1.36	0.06	1.14	2.57	0.00	35.6	0.0	0.	0.00
929	7.300	31.07	0.0	0.0	0.0	2.43	8.30	0.00	8.30	0.00	1.36	0.07	1.14	2.56	0.00	35.6	0.0	0.	0.00
930	7.200	31.07	0.0	0.0	0.0	2.44	8.20	0.00	8.20	0.00	1.36	0.07	1.13	2.56	0.00	35.7	0.0	0.	0.00
931	7.100	31.06	0.0	0.0	0.0	2.45	8.11	0.00	8.11	0.00	1.36	0.07	1.13	2.56	0.00	35.8	0.0	0.	0.00
932	7.000	31.05	0.0	0.0	0.0	2.47	8.02	0.00	8.02	0.00	1.36	0.07	1.13	2.55	0.00	35.9	0.0	0.	0.00
933	6.900	31.04	0.0	0.0	0.0	2.48	7.93	0.00	7.93	0.00	1.36	0.07	1.13	2.55	0.00	35.9	0.0	0.	0.00
934	6.800	31.03	0.0	0.0	0.0	2.50	7.84	0.00	7.84	0.00	1.36	0.07	1.12	2.55	0.00	36.0	0.0	0.	0.00
935	6.700	31.02	0.0	0.0	0.0	2.51	7.75	0.00	7.75	0.00	1.36	0.07	1.12	2.54	0.00	36.1	0.0	0.	0.00
936	6.600	31.02	0.0	0.0	0.0	2.53	7.67	0.00	7.67	0.00	1.35	0.07	1.12	2.54	0.00	36.1	0.0	0.	0.00
937	6.500	31.01	0.0	0.0	0.0	2.55	7.58	0.00	7.58	0.00	1.35	0.07	1.11	2.54	0.00	36.2	0.0	0.	0.00
938	6.400	31.00	0.0	0.0	0.0	2.57	7.49	0.00	7.49	0.00	1.35	0.07	1.11	2.53	0.00	36.3	0.0	0.	0.00
939	6.300	30.99	0.0	0.0	0.0	2.59	7.41	0.00	7.41	0.00	1.35	0.07	1.11	2.53	0.00	36.4	0.0	0.	0.00
940	6.200	30.98	0.0	0.0	0.0	2.61	7.33	0.00	7.33	0.00	1.35	0.07	1.11	2.53	0.00	36.4	0.0	0.	0.00
941	6.100	30.98	0.0	0.0	0.0	2.63	7.25	0.00	7.25	0.00	1.35	0.07	1.10	2.52	0.00	36.5	0.0	0.	0.00
942	6.000	30.97	0.0	0.0	0.0	2.65	7.16	0.00	7.16	0.00	1.35	0.07	1.10	2.52	0.00	36.6	0.0	0.	0.00
943	5.900	30.96	0.0	0.0	0.0	2.67	7.08	0.00	7.08	0.00	1.35	0.07	1.10	2.51	0.00	36.6	0.0	0.	0.00
944	5.800	30.95	0.0	0.0	0.0	2.70	7.00	0.00	7.00	0.00	1.35	0.07	1.09	2.51	0.00	36.7	0.0	0.	0.00
945	5.700	30.94	0.0	0.0	0.0	2.72	6.93	0.00	6.93	0.00	1.35	0.07	1.09	2.51	0.00	36.8	0.0	0.	0.00
946	5.600	30.93	0.0	0.0	0.0	2.74	6.85	0.00	6.85	0.00	1.35	0.07	1.09	2.50	0.00	36.9	0.0	0.	0.00
947	5.500	30.92	0.0	0.0	0.0	2.77	6.77	0.00	6.77	0.00	1.35	0.07	1.09	2.50	0.00	36.9	0.0	0.	0.00
948	5.400	30.92	0.0	0.0	0.0	2.79	6.70	0.00	6.70	0.00	1.35	0.07	1.08	2.50	0.00	37.0	0.0	0.	0.00
949	5.300	30.91	0.0	0.0	0.0	2.82	6.62	0.00	6.62	0.00	1.34	0.07	1.08	2.49	0.00	37.1	0.0	0.	0.00
950	5.200	30.90	0.0	0.0	0.0	2.84	6.55	0.00	6.55	0.00	1.34	0.07	1.08	2.49	0.00	37.1	0.0	0.	0.00
951	5.100	30.89	0.0	0.0	0.0	2.87	6.47	0.00	6.47	0.00	1.34	0.07	1.07	2.49	0.00	37.2	0.0	0.	0.00
952	5.000	30.88	0.0	0.0	0.0	2.90	6.40	0.00	6.40	0.00	1.34	0.07	1.07	2.48	0.00	37.3	0.0	0.	0.00
953	4.900	30.88	0.0	0.0	0.0	2.92	6.33	0.00	6.33	0.00	1.34	0.07	1.07	2.48	0.00	37.4	0.0	0.	0.00
954	4.800	30.87	0.0	0.0	0.0	2.95	6.26	0.00	6.26	0.00	1.34	0.07	1.07	2.48	0.00	37.4	0.0	0.	0.00
955	4.700	30.86	0.0	0.0	0.0	2.98	6.19	0.00	6.19	0.00	1.34	0.07	1.06	2.47	0.00	37.5	0.0	0.	0.00

956	4.600	30.85	0.0	0.0	0.0	3.01	6.12	0.00	6.12	0.00	1.34	0.07	1.06	2.47	0.00	37.6	0.0	0.	0.00
957	4.500	30.84	0.0	0.0	0.0	3.04	6.05	0.00	6.05	0.00	1.34	0.07	1.06	2.47	0.00	37.6	0.0	0.	0.00
958	4.400	30.83	0.0	0.0	0.0	3.07	5.99	0.00	5.99	0.00	1.34	0.07	1.05	2.46	0.00	37.7	0.0	0.	0.00
959	4.300	30.82	0.0	0.0	0.0	3.09	5.92	0.00	5.92	0.00	1.34	0.07	1.05	2.46	0.00	37.8	0.0	0.	0.00
960	4.200	30.82	0.0	0.0	0.0	3.12	5.85	0.00	5.85	0.00	1.34	0.07	1.05	2.46	0.00	37.9	0.0	0.	0.00
961	4.100	30.81	0.0	0.0	0.0	3.15	5.79	0.00	5.79	0.00	1.34	0.07	1.04	2.45	0.00	37.9	0.0	0.	0.00
962	4.000	30.80	0.0	0.0	0.0	3.18	5.72	0.00	5.72	0.00	1.33	0.07	1.04	2.45	0.00	38.0	0.0	0.	0.00
1007	3.900	30.78	0.0	0.0	0.0	3.40	5.85	0.00	5.85	0.00	1.36	0.07	0.72	2.14	0.00	37.0	0.0	0.	0.00
1008	3.800	30.76	0.0	0.0	0.0	3.42	5.81	0.00	5.81	0.00	1.36	0.07	0.72	2.14	0.00	36.1	0.0	0.	0.00
1009	3.700	30.75	0.0	0.0	0.0	3.44	5.77	0.00	5.77	0.00	1.36	0.07	0.71	2.14	0.00	35.2	0.0	0.	0.00
1010	3.600	30.73	0.0	0.0	0.0	3.45	5.74	0.00	5.74	0.00	1.36	0.07	0.71	2.14	0.00	34.2	0.0	0.	0.00
1011	3.500	30.71	0.0	0.0	0.0	3.47	5.70	0.00	5.70	0.00	1.35	0.07	0.71	2.13	0.00	33.2	0.0	0.	0.00
1012	3.400	30.69	0.0	0.0	0.0	3.48	5.66	0.00	5.66	0.00	1.35	0.07	0.71	2.13	0.00	32.3	0.0	0.	0.00
1013	3.300	30.68	0.0	0.0	0.0	3.50	5.62	0.00	5.62	0.00	1.35	0.07	0.71	2.13	0.00	31.4	0.0	0.	0.00
1014	3.200	30.66	0.0	0.0	0.0	3.51	5.59	0.00	5.59	0.00	1.35	0.07	0.71	2.13	0.00	30.4	0.0	0.	0.00
1015	3.100	30.64	0.0	0.0	0.0	3.52	5.55	0.00	5.55	0.00	1.35	0.07	0.71	2.13	0.00	29.5	0.0	0.	0.00
1016	3.000	30.62	0.0	0.0	0.0	3.53	5.51	0.00	5.51	0.00	1.35	0.07	0.71	2.13	0.00	28.5	0.0	0.	0.00
1017	2.900	30.61	0.0	0.0	0.0	3.54	5.48	0.00	5.48	0.00	1.35	0.07	0.70	2.12	0.00	27.5	0.0	0.	0.00
1018	2.800	30.59	0.0	0.0	0.0	3.55	5.44	0.00	5.44	0.00	1.35	0.07	0.70	2.12	0.00	26.6	0.0	0.	0.00
1019	2.700	30.57	0.0	0.0	0.0	3.56	5.41	0.00	5.41	0.00	1.35	0.07	0.70	2.12	0.00	25.6	0.0	0.	0.00
1020	2.600	30.56	0.0	0.0	0.0	3.57	5.37	0.00	5.37	0.00	1.35	0.07	0.70	2.12	0.00	24.7	0.0	0.	0.00
1021	2.500	30.54	0.0	0.0	0.0	3.58	5.33	0.00	5.33	0.00	1.35	0.07	0.70	2.12	0.00	23.8	0.0	0.	0.00
1022	2.400	30.52	0.0	0.0	0.0	3.58	5.30	0.00	5.30	0.00	1.35	0.07	0.70	2.12	0.00	22.8	0.0	0.	0.00
1023	2.300	30.50	0.0	0.0	0.0	3.59	5.26	0.00	5.26	0.00	1.35	0.07	0.70	2.12	0.00	21.9	0.0	0.	0.00
1024	2.200	30.49	0.0	0.0	0.0	3.59	5.23	0.00	5.23	0.00	1.35	0.07	0.70	2.11	0.00	20.9	0.0	0.	0.00
1025	2.100	30.47	0.0	0.0	0.0	3.60	5.20	0.00	5.20	0.00	1.35	0.07	0.70	2.11	0.00	20.0	0.0	0.	0.00
1026	2.000	30.45	0.0	0.0	0.0	3.60	5.16	0.00	5.16	0.00	1.35	0.07	0.70	2.11	0.00	19.0	0.0	0.	0.00
1027	1.900	30.43	0.0	0.0	0.0	3.60	5.13	0.00	5.13	0.00	1.35	0.07	0.70	2.11	0.00	18.1	0.0	0.	0.00
1028	1.800	30.41	0.0	0.0	0.0	3.60	5.10	0.00	5.10	0.00	1.35	0.07	0.69	2.11	0.00	17.1	0.0	0.	0.00
1029	1.700	30.40	0.0	0.0	0.0	3.60	5.06	0.00	5.06	0.00	1.35	0.07	0.69	2.11	0.00	16.1	0.0	0.	0.00
1030	1.600	30.38	0.0	0.0	0.0	3.60	5.03	0.00	5.03	0.00	1.35	0.07	0.69	2.11	0.00	15.2	0.0	0.	0.00
1031	1.500	30.36	0.0	0.0	0.0	3.60	5.00	0.00	5.00	0.00	1.35	0.07	0.69	2.11	0.00	14.2	0.0	0.	0.00
1032	1.400	30.34	0.0	0.0	0.0	3.60	4.96	0.00	4.96	0.00	1.35	0.07	0.69	2.11	0.00	13.3	0.0	0.	0.00
1033	1.300	30.33	0.0	0.0	0.0	3.60	4.93	0.00	4.93	0.00	1.34	0.07	0.69	2.11	0.00	12.4	0.0	0.	0.00
1034	1.200	30.31	0.0	0.0	0.0	3.59	4.90	0.00	4.90	0.00	1.34	0.07	0.69	2.11	0.00	11.4	0.0	0.	0.00
1035	1.100	30.29	0.0	0.0	0.0	3.59	4.87	0.00	4.87	0.00	1.34	0.07	0.69	2.11	0.00	10.5	0.0	0.	0.00
1036	1.000	30.27	0.0	0.0	0.0	3.59	4.84	0.00	4.84	0.00	1.34	0.07	0.69	2.10	0.00	9.5	0.0	0.	0.00
1037	0.900	30.26	0.0	0.0	0.0	3.58	4.80	0.00	4.80	0.00	1.34	0.07	0.69	2.10	0.00	8.6	0.0	0.	0.00
1038	0.800	30.24	0.0	0.0	0.0	3.57	4.77	0.00	4.77	0.00	1.34	0.07	0.69	2.10	0.00	7.6	0.0	0.	0.00
1039	0.700	30.22	0.0	0.0	0.0	3.57	4.74	0.00	4.74	0.00	1.34	0.07	0.69	2.10	0.00	6.7	0.0	0.	0.00
1040	0.600	30.20	0.0	0.0	0.0	3.56	4.71	0.00	4.71	0.00	1.34	0.07	0.69	2.10	0.00	5.7	0.0	0.	0.00
1041	0.500	30.19	0.0	0.0	0.0	3.55	4.68	0.00	4.68	0.00	1.34	0.07	0.69	2.10	0.00	4.8	0.0	0.	0.00
1042	0.400	30.17	0.0	0.0	0.0	3.54	4.65	0.00	4.65	0.00	1.34	0.07	0.69	2.10	0.00	3.8	0.0	0.	0.00
1043	0.300	30.15	0.0	0.0	0.0	3.53	4.62	0.00	4.62	0.00	1.34	0.07	0.69	2.10	0.00	2.9	0.0	0.	0.00
1044	0.200	30.14	0.0	0.0	0.0	3.52	4.59	0.00	4.59	0.00	1.34	0.07	0.69	2.10	0.00	1.9	0.0	0.	0.00
1045	0.100	30.12	0.0	0.0	0.0	3.51	4.56	0.00	4.56	0.00	1.34	0.07	0.69	2.10	0.00	1.0	0.0	0.	0.00
1046	0.000	30.10	0.0	0.0	0.0	3.50	4.53	0.00	4.53	0.00	1.34	0.07	0.69	2.10	0.00	0.0	0.0	0.	0.00

SPECIAL REPORT: Lower Flat River
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	*	*	CM-I mg/L	CM-II mg/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS #/100mL	CHL A *	MACRO	COLI	NCM
963	4.300	30.51	0.0	0.0	0.0	5.32	11.83	0.00	11.83	0.00	1.40	0.03	0.00	1.43	0.00	0.9	0.0	0.	0.00		
964	4.200	30.51	0.0	0.0	0.0	5.15	11.66	0.00	11.66	0.00	1.40	0.03	0.00	1.43	0.00	1.7	0.0	0.	0.00		
965	4.100	30.52	0.0	0.0	0.0	4.99	11.49	0.00	11.49	0.00	1.40	0.03	0.00	1.43	0.00	2.6	0.0	0.	0.00		
966	4.000	30.53	0.0	0.0	0.0	4.84	11.32	0.00	11.32	0.00	1.40	0.03	0.00	1.43	0.00	3.5	0.0	0.	0.00		
967	3.900	30.53	0.0	0.0	0.0	4.70	11.16	0.00	11.16	0.00	1.40	0.03	0.00	1.44	0.00	4.3	0.0	0.	0.00		
968	3.800	30.54	0.0	0.0	0.0	4.57	11.00	0.00	11.00	0.00	1.40	0.03	0.00	1.44	0.00	5.2	0.0	0.	0.00		
969	3.700	30.55	0.0	0.0	0.0	4.45	10.84	0.00	10.84	0.00	1.40	0.03	0.00	1.44	0.00	6.0	0.0	0.	0.00		
970	3.600	30.55	0.0	0.0	0.0	4.33	10.68	0.00	10.68	0.00	1.40	0.04	0.00	1.44	0.00	6.9	0.0	0.	0.00		
971	3.500	30.56	0.0	0.0	0.0	4.23	10.53	0.00	10.53	0.00	1.40	0.04	0.00	1.44	0.00	7.8	0.0	0.	0.00		
972	3.400	30.57	0.0	0.0	0.0	4.13	10.38	0.00	10.38	0.00	1.40	0.04	0.00	1.44	0.00	8.6	0.0	0.	0.00		
973	3.300	30.58	0.0	0.0	0.0	4.05	10.23	0.00	10.23	0.00	1.40	0.04	0.00	1.44	0.00	9.5	0.0	0.	0.00		
974	3.200	30.58	0.0	0.0	0.0	3.97	10.08	0.00	10.08	0.00	1.40	0.04	0.00	1.44	0.00	10.4	0.0	0.	0.00		
975	3.100	30.59	0.0	0.0	0.0	3.89	9.93	0.00	9.93	0.00	1.40	0.04	0.00	1.44	0.00	11.2	0.0	0.	0.00		
976	3.000	30.60	0.0	0.0	0.0	3.82	9.79	0.00	9.79	0.00	1.40	0.04	0.00	1.44	0.00	12.1	0.0	0.	0.00		
977	2.900	30.60	0.0	0.0	0.0	3.76	9.65	0.00	9.65	0.00	1.40	0.04	0.00	1.44	0.00	13.0	0.0	0.	0.00		
978	2.800	30.61	0.0	0.0	0.0	3.71	9.51	0.00	9.51	0.00	1.40	0.04	0.00	1.44	0.00	13.8	0.0	0.	0.00		
979	2.700	30.62	0.0	0.0	0.0	3.66	9.37	0.00	9.37	0.00	1.41	0.04	0.00	1.45	0.00	14.7	0.0	0.	0.00		
980	2.600	30.62	0.0	0.0	0.0	3.62	9.23	0.00	9.23	0.00	1.41	0.04	0.00	1.45	0.00	15.5	0.0	0.	0.00		
981	2.500	30.63	0.0	0.0	0.0	3.58	9.10	0.00	9.10	0.00	1.41	0.04	0.00	1.45	0.00	16.4	0.0	0.	0.00		
982	2.400	30.64	0.0	0.0	0.0	3.55	8.97	0.00	8.97	0.00	1.41	0.04	0.00	1.45	0.00	17.3	0.0	0.	0.00		
983	2.300	30.64	0.0	0.0	0.0	3.52	8.84	0.00	8.84	0.00	1.41	0.04	0.00	1.45	0.00	18.1	0.0	0.	0.00		
984	2.200	30.65	0.0	0.0	0.0	3.50	8.71	0.00	8.71	0.00	1.41	0.04	0.00	1.45	0.00	19.0	0.0	0.	0.00		
985	2.100	30.66	0.0	0.0	0.0	3.48	8.58	0.00	8.58	0.00	1.41	0.04	0.00	1.45	0.00	19.9	0.0	0.	0.00		
986	2.000	30.66	0.0	0.0	0.0	3.47	8.46	0.00	8.46	0.00	1.41	0.04	0.00	1.45	0.00	20.7	0.0	0.	0.00		
987	1.900	30.67	0.0	0.0	0.0	3.46	8.34	0.00	8.34	0.00	1.41	0.04	0.00	1.45	0.00	21.6	0.0	0.	0.00		
988	1.800	30.68	0.0	0.0	0.0	3.45	8.22	0.00	8.22	0.00	1.41	0.05	0.00	1.45	0.00	22.5	0.0	0.	0.00		
989	1.700	30.68	0.0	0.0	0.0	3.45	8.10	0.00	8.10	0.00	1.41	0.05	0.00	1.45	0.00	23.3	0.0	0.	0.00		
990	1.600	30.69	0.0	0.0	0.0	3.45	7.98	0.00	7.98	0.00	1.41	0.05	0.00	1.45	0.00	24.2	0.0	0.	0.00		
991	1.500	30.70	0.0	0.0	0.0	3.46	7.86	0.00	7.86	0.00	1.41	0.05	0.00	1.46	0.00	25.0	0.0	0.	0.00		
992	1.400	30.70	0.0	0.0	0.0	3.47	7.75	0.00	7.75	0.00	1.41	0.05	0.00	1.46	0.00	25.9	0.0	0.	0.00		
993	1.300	30.71	0.0	0.0	0.0	3.48	7.64	0.00	7.64	0.00	1.41	0.05	0.00	1.46	0.00	26.8	0.0	0.	0.00		
994	1.200	30.72	0.0	0.0	0.0	3.49	7.52	0.00	7.52	0.00	1.41	0.05	0.00	1.46	0.00	27.6	0.0	0.	0.00		
995	1.100	30.73	0.0	0.0	0.0	3.51	7.41	0.00	7.41	0.00	1.41	0.05	0.00	1.46	0.00	28.5	0.0	0.	0.00		
996	1.000	30.73	0.0	0.0	0.0	3.53	7.31	0.00	7.31	0.00	1.41	0.05	0.00	1.46	0.00	29.4	0.0	0.	0.00		
997	0.900	30.74	0.0	0.0	0.0	3.56	7.20	0.00	7.20	0.00	1.41	0.05	0.00	1.46	0.00	30.2	0.0	0.	0.00		
998	0.800	30.75	0.0	0.0	0.0	3.58	7.10	0.00	7.10	0.00	1.41	0.05	0.00	1.46	0.00	31.1	0.0	0.	0.00		
999	0.700	30.75	0.0	0.0	0.0	3.61	6.99	0.00	6.99	0.00	1.41	0.05	0.00	1.46	0.00	32.0	0.0	0.	0.00		
1000	0.600	30.76	0.0	0.0	0.0	3.64	6.89	0.00	6.89	0.00	1.41	0.05	0.00	1.46	0.00	32.8	0.0	0.	0.00		
1001	0.500	30.77	0.0	0.0	0.0	3.68	6.79	0.00	6.79	0.00	1.41	0.05	0.00	1.46	0.00	33.7	0.0	0.	0.00		
1002	0.400	30.77	0.0	0.0	0.0	3.71	6.69	0.00	6.69	0.00	1.41	0.05	0.00	1.46	0.00	34.5	0.0	0.	0.00		
1003	0.300	30.78	0.0	0.0	0.0	3.75	6.59	0.00	6.59	0.00	1.41	0.05	0.00	1.46	0.00	35.4	0.0	0.	0.00		
1004	0.200	30.79	0.0	0.0	0.0	3.79	6.50	0.00	6.50	0.00	1.41	0.05	0.00	1.46	0.00	36.3	0.0	0.	0.00		
1005	0.100	30.79	0.0	0.0	0.0	3.83	6.40	0.00	6.40	0.00	1.41	0.05	0.00	1.47	0.00	37.1	0.0	0.	0.00		
1006	0.000	30.80	0.0	0.0	0.0	3.87	6.31	0.00	6.31	0.00	1.41	0.05	0.00	1.47	0.00	38.0	0.0	0.	0.00		

SPECIAL REPORT: Bayou Cholpe #1
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	ABOD#2 DECAY 1/da	ABOD#2 SOD 1/da	FULL SOD *	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM DECAY	NCM SETT
1	55.500	8.30	10.95	0.16	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	55.400	8.28	10.98	0.16	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	55.300	8.26	11.01	0.16	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	55.200	8.23	11.04	0.16	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.02	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	55.100	8.21	11.07	0.17	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.02	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	55.000	8.19	11.10	0.17	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.02	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	54.900	8.17	11.13	0.17	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.02	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	54.800	8.15	11.16	0.17	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	54.700	8.13	11.19	0.17	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	54.600	8.10	11.22	0.17	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.02	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	54.500	8.08	11.25	0.17	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.02	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	54.400	8.06	11.28	0.17	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.02	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	54.300	8.04	11.31	0.18	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.02	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	54.200	8.02	11.34	0.18	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	54.100	8.00	11.37	0.18	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	54.000	7.98	11.40	0.18	0.00	0.00	0.00	0.00	0.00	1.08	1.08	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	53.900	7.95	11.43	0.18	0.00	0.00	0.00	0.00	0.00	1.09	1.09	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	53.800	7.93	11.46	0.18	0.00	0.00	0.00	0.00	0.00	1.10	1.10	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	53.700	7.91	11.49	0.18	0.00	0.00	0.00	0.00	0.00	1.11	1.11	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	53.600	7.89	11.52	0.18	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	53.500	7.87	11.55	0.18	0.00	0.00	0.00	0.00	0.00	1.14	1.14	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	53.400	7.85	11.58	0.19	0.00	0.00	0.00	0.00	0.00	1.15	1.15	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	53.300	7.83	11.61	0.19	0.00	0.00	0.00	0.00	0.00	1.16	1.16	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	53.200	7.81	11.64	0.19	0.00	0.00	0.00	0.00	0.00	1.17	1.17	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	53.100	7.79	11.67	0.19	0.00	0.00	0.00	0.00	0.00	1.18	1.18	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	53.000	7.77	11.70	0.19	0.00	0.00	0.00	0.00	0.00	1.19	1.19	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	52.900	7.75	11.73	0.19	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	52.800	7.73	11.76	0.19	0.00	0.00	0.00	0.00	0.00	1.21	1.21	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	52.700	7.71	11.79	0.20	0.00	0.00	0.00	0.00	0.00	1.22	1.22	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	52.600	7.69	11.82	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	52.500	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	52.400	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	52.300	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	52.200	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	52.100	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	52.000	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	51.900	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	51.800	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	51.700	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	51.600	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	51.500	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	51.400	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	51.300	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	51.200	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	51.100	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	51.000	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

47	50.900	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	50.800	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	50.700	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	50.600	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	50.500	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	50.400	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	50.300	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	50.200	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	50.100	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	50.000	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	49.900	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	49.800	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	49.700	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	49.600	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	49.500	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	49.400	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	49.300	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	49.200	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	49.100	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	49.000	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	48.900	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	48.800	7.69	0.84	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	48.700	7.69	0.85	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	48.600	7.69	0.86	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	48.500	7.69	0.87	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72	48.400	7.69	0.87	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	48.300	7.69	0.88	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	48.200	7.69	0.89	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	48.100	7.69	0.90	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	48.000	7.69	0.90	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	47.900	7.69	0.91	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	47.800	7.69	0.92	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	47.700	7.69	0.93	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	47.600	7.69	0.93	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	47.500	7.69	0.94	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82	47.400	7.69	0.95	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	47.300	7.69	0.95	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	47.200	7.69	0.96	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	47.100	7.69	0.97	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	47.000	7.69	0.97	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	46.900	7.69	0.98	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	46.800	7.69	0.99	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	46.700	7.69	0.99	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	46.600	7.69	1.00	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	46.500	7.69	1.01	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	46.400	7.69	1.01	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	46.300	7.69	1.02	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	46.200	7.69	1.03	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	46.100	7.69	1.03	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	46.000	7.69	1.04	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

97	45.900	7.69	1.05	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	45.800	7.69	1.05	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	45.700	7.69	1.06	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	45.600	7.69	1.07	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	45.500	7.69	1.07	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	45.400	7.69	1.08	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	45.300	7.69	1.08	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	45.200	7.69	1.09	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	45.100	7.69	1.10	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	45.000	7.69	1.10	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	44.900	7.69	1.11	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	44.800	7.69	1.11	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	44.700	7.69	1.12	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	44.600	7.69	1.13	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	44.500	7.69	1.13	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	44.400	7.69	1.14	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	44.300	7.69	1.14	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	44.200	7.69	1.15	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	44.100	7.69	1.16	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	44.000	7.69	1.16	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	43.900	7.69	1.17	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	43.800	7.69	1.17	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	43.700	7.69	1.18	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	43.600	7.69	1.18	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	43.500	7.69	1.19	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	43.400	7.69	1.20	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	43.300	7.69	1.20	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	43.200	7.69	1.21	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	43.100	7.69	1.21	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
229	43.000	7.68	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.31	5.31	0.02	0.00	0.36	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
230	42.900	7.68	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.32	5.32	0.02	0.00	0.36	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
231	42.800	7.67	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.34	5.34	0.02	0.00	0.35	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
232	42.700	7.66	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.36	5.36	0.02	0.00	0.35	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
233	42.600	7.66	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.38	5.38	0.02	0.00	0.34	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
234	42.500	7.65	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.40	5.40	0.02	0.00	0.34	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
235	42.400	7.64	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.41	5.41	0.02	0.00	0.34	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
236	42.300	7.63	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.43	5.43	0.02	0.00	0.33	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
237	42.200	7.63	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.45	5.45	0.02	0.00	0.33	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
238	42.100	7.62	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.47	5.47	0.02	0.00	0.33	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
239	42.000	7.61	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.49	5.49	0.02	0.00	0.32	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
240	41.900	7.61	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.51	5.51	0.02	0.00	0.32	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
241	41.800	7.60	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.52	5.52	0.02	0.00	0.32	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
242	41.700	7.59	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.54	5.54	0.02	0.00	0.31	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
243	41.600	7.58	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.56	5.56	0.02	0.00	0.31	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
244	41.500	7.58	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.58	5.58	0.02	0.00	0.31	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
245	41.400	7.57	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.60	5.60	0.02	0.00	0.31	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
246	41.300	7.56	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.62	5.62	0.02	0.00	0.31	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00
247	41.200	7.56	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.64	5.64	0.02	0.00	0.31	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.00
248	41.100	7.55	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.66	5.66	0.02	0.00	0.31	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
249	41.000	7.54	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.02	0.00	0.31	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00

250	40.900	7.54	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.69	5.69	0.02	0.00	0.31	0.00	0.00	0.00	2.69	0.00	0.00	0.00	0.00
251	40.800	7.53	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.71	5.71	0.02	0.00	0.31	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
252	40.700	7.52	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.73	5.73	0.02	0.00	0.31	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00
253	40.600	7.51	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.75	5.75	0.02	0.00	0.31	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
254	40.500	7.51	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.77	5.77	0.02	0.00	0.32	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
255	40.400	7.50	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.79	5.79	0.02	0.00	0.32	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00
256	40.300	7.49	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.81	5.81	0.02	0.00	0.32	0.00	0.00	0.00	3.48	0.00	0.00	0.00	0.00
257	40.200	7.49	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.83	5.83	0.02	0.00	0.33	0.00	0.00	0.00	3.61	0.00	0.00	0.00	0.00
258	40.100	7.48	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.85	5.85	0.02	0.00	0.33	0.00	0.00	0.00	3.75	0.00	0.00	0.00	0.00
259	40.000	7.47	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.87	5.87	0.02	0.00	0.34	0.00	0.00	0.00	3.88	0.00	0.00	0.00	0.00
260	39.900	7.47	0.36	0.18	0.00	0.00	0.00	0.00	0.00	5.89	5.89	0.02	0.00	0.34	0.00	0.00	0.00	4.02	0.00	0.00	0.00	0.00
261	39.800	7.46	0.36	0.18	0.00	0.00	0.00	0.00	0.00	5.91	5.91	0.02	0.00	0.35	0.00	0.00	0.00	4.15	0.00	0.00	0.00	0.00
262	39.700	7.45	0.36	0.18	0.00	0.00	0.00	0.00	0.00	5.93	5.93	0.02	0.00	0.35	0.00	0.00	0.00	4.29	0.00	0.00	0.00	0.00
263	39.600	7.45	0.36	0.18	0.00	0.00	0.00	0.00	0.00	5.95	5.95	0.02	0.00	0.36	0.00	0.00	0.00	4.43	0.00	0.00	0.00	0.00
264	39.500	7.44	0.36	0.18	0.00	0.00	0.00	0.00	0.00	5.97	5.97	0.02	0.00	0.37	0.00	0.00	0.00	4.56	0.00	0.00	0.00	0.00
265	39.400	7.43	0.36	0.18	0.00	0.00	0.00	0.00	0.00	5.99	5.99	0.02	0.00	0.37	0.00	0.00	0.00	4.70	0.00	0.00	0.00	0.00
266	39.300	7.43	0.36	0.18	0.00	0.00	0.00	0.00	0.00	6.01	6.01	0.02	0.00	0.38	0.00	0.00	0.00	4.84	0.00	0.00	0.00	0.00
267	39.200	7.42	0.36	0.18	0.00	0.00	0.00	0.00	0.00	6.03	6.03	0.02	0.00	0.39	0.00	0.00	0.00	4.98	0.00	0.00	0.00	0.00
268	39.100	7.41	0.36	0.18	0.00	0.00	0.00	0.00	0.00	6.05	6.05	0.02	0.00	0.39	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
269	39.000	7.41	0.36	0.18	0.00	0.00	0.00	0.00	0.00	6.07	6.07	0.02	0.00	0.40	0.00	0.00	0.00	5.26	0.00	0.00	0.00	0.00
270	38.900	7.40	0.36	0.18	0.00	0.00	0.00	0.00	0.00	6.09	6.09	0.02	0.00	0.40	0.00	0.00	0.00	5.40	0.00	0.00	0.00	0.00
271	38.800	7.39	0.36	0.18	0.00	0.00	0.00	0.00	0.00	6.11	6.11	0.03	0.00	0.41	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00
347	38.700	7.39	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.42	0.00	0.00	0.00	5.47	0.00	0.00	0.00	0.00
348	38.600	7.39	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.03	0.00	0.43	0.00	0.00	0.00	5.39	0.00	0.00	0.00	0.00
349	38.500	7.40	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.44	0.00	0.00	0.00	5.31	0.00	0.00	0.00	0.00
350	38.400	7.40	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.45	0.00	0.00	0.00	5.23	0.00	0.00	0.00	0.00
351	38.300	7.40	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.45	0.00	0.00	0.00	5.15	0.00	0.00	0.00	0.00
352	38.200	7.40	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.46	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00
353	38.100	7.40	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.46	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00
354	38.000	7.40	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	0.02	0.00	0.47	0.00	0.00	0.00	4.92	0.00	0.00	0.00	0.00
355	37.900	7.41	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	0.02	0.00	0.47	0.00	0.00	0.00	4.84	0.00	0.00	0.00	0.00
356	37.800	7.41	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	0.02	0.00	0.47	0.00	0.00	0.00	4.76	0.00	0.00	0.00	0.00
357	37.700	7.41	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	0.02	0.00	0.47	0.00	0.00	0.00	4.68	0.00	0.00	0.00	0.00
358	37.600	7.41	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	0.02	0.00	0.48	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00
359	37.500	7.41	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	0.02	0.00	0.48	0.00	0.00	0.00	4.52	0.00	0.00	0.00	0.00
360	37.400	7.41	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	0.02	0.00	0.48	0.00	0.00	0.00	4.45	0.00	0.00	0.00	0.00
361	37.300	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	0.02	0.00	0.48	0.00	0.00	0.00	4.37	0.00	0.00	0.00	0.00
362	37.200	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	0.02	0.00	0.48	0.00	0.00	0.00	4.29	0.00	0.00	0.00	0.00
363	37.100	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	0.02	0.00	0.48	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.00
364	37.000	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	0.02	0.00	0.48	0.00	0.00	0.00	4.14	0.00	0.00	0.00	0.00
365	36.900	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	0.02	0.00	0.48	0.00	0.00	0.00	4.06	0.00	0.00	0.00	0.00
366	36.800	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	0.02	0.00	0.48	0.00	0.00	0.00	3.98	0.00	0.00	0.00	0.00
367	36.700	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.90	0.00	0.00	0.00	0.00
368	36.600	7.43	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
369	36.500	7.43	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.75	0.00	0.00	0.00	0.00
370	36.400	7.43	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.67	0.00	0.00	0.00	0.00
371	36.300	7.43	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.59	0.00	0.00	0.00	0.00
372	36.200	7.43	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.52	0.00	0.00	0.00	0.00
373	36.100	7.43	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.44	0.00	0.00	0.00	0.00
374	36.000	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	0.02	0.00	0.48	0.00	0.00	0.00	3.36	0.00	0.00	0.00	0.00

375	35.900	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	0.02	0.00	0.48	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
376	35.800	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	0.02	0.00	0.48	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00
377	35.700	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	0.02	0.00	0.47	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00
378	35.600	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	0.02	0.00	0.47	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00
379	35.500	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	0.02	0.00	0.47	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
380	35.400	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	0.02	0.00	0.47	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
381	35.300	7.45	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	0.02	0.00	0.47	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
382	35.200	7.45	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	0.02	0.00	0.47	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
383	35.100	7.45	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	0.02	0.00	0.47	0.00	0.00	0.00	2.68	0.00	0.00	0.00	0.00
384	35.000	7.45	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	0.02	0.00	0.47	0.00	0.00	0.00	2.60	0.00	0.00	0.00	0.00
385	34.900	7.45	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	0.02	0.00	0.47	0.00	0.00	0.00	2.53	0.00	0.00	0.00	0.00
386	34.800	7.45	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	0.02	0.00	0.47	0.00	0.00	0.00	2.45	0.00	0.00	0.00	0.00
387	34.700	7.46	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	0.02	0.00	0.47	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
388	34.600	7.46	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	0.02	0.00	0.47	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
389	34.500	7.46	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	0.02	0.00	0.46	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
390	34.400	7.46	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	0.02	0.00	0.46	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
391	34.300	7.46	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	0.02	0.00	0.46	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
392	34.200	7.46	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	0.02	0.00	0.46	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
393	34.100	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	0.02	0.00	0.46	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
394	34.000	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	0.02	0.00	0.46	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
395	33.900	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	0.02	0.00	0.46	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
396	33.800	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	0.02	0.00	0.45	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
397	33.700	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	0.02	0.00	0.45	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
398	33.600	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	0.02	0.00	0.45	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
399	33.500	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	0.02	0.00	0.45	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
400	33.400	7.48	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.45	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
401	33.300	7.48	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.45	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
402	33.200	7.48	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.44	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
403	33.100	7.48	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.44	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
404	33.000	7.48	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.44	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
405	32.900	7.48	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.02	0.00	0.44	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
406	32.800	7.49	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	0.02	0.00	0.43	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
407	32.700	7.49	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	0.02	0.00	0.43	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
408	32.600	7.49	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	0.02	0.00	0.43	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
409	32.500	7.49	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	0.02	0.00	0.43	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
410	32.400	7.49	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	0.02	0.00	0.42	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
411	32.300	7.49	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	0.02	0.00	0.42	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
412	32.200	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	0.02	0.00	0.42	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
413	32.100	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	0.02	0.00	0.41	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
414	32.000	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	0.02	0.00	0.41	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
415	31.900	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	0.02	0.00	0.41	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
416	31.800	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	0.02	0.00	0.40	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
417	31.700	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	0.02	0.00	0.40	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
418	31.600	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	0.02	0.00	0.39	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
419	31.500	7.51	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
554	31.400	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
555	31.300	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
556	31.200	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
557	31.100	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
558	31.000	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

559	30.900	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
560	30.800	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
561	30.700	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
562	30.600	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
563	30.500	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
564	30.400	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
565	30.300	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
566	30.200	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
567	30.100	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
568	30.000	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
569	29.900	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
570	29.800	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
571	29.700	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
572	29.600	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
573	29.500	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
574	29.400	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
575	29.300	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
576	29.200	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
577	29.100	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
578	29.000	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
579	28.900	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
580	28.800	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
581	28.700	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
582	28.600	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
583	28.500	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
584	28.400	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
585	28.300	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
586	28.200	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
587	28.100	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
588	28.000	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
589	27.900	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
590	27.800	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
591	27.700	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
592	27.600	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
593	27.500	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
594	27.400	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
595	27.300	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
596	27.200	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
597	27.100	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
598	27.000	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
599	26.900	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600	26.800	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
601	26.700	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
602	26.600	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
603	26.500	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
604	26.400	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
605	26.300	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
606	26.200	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
607	26.100	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
608	26.000	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

609	25.900	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
610	25.800	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
611	25.700	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
612	25.600	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
613	25.500	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
614	25.400	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
615	25.300	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
616	25.200	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
617	25.100	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
618	25.000	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
619	24.900	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
620	24.800	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
621	24.700	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
622	24.600	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.43	2.43	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
623	24.500	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.43	2.43	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
624	24.400	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
625	24.300	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
626	24.200	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
627	24.100	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
628	24.000	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
629	23.900	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
630	23.800	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
631	23.700	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
632	23.600	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
633	23.500	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
634	23.400	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
635	23.300	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
636	23.200	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
637	23.100	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
638	23.000	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
639	22.900	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
640	22.800	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
641	22.700	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
642	22.600	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
643	22.500	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
644	22.400	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
645	22.300	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
646	22.200	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
647	22.100	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
648	22.000	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
649	21.900	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
650	21.800	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
651	21.700	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
652	21.600	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
653	21.500	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
654	21.400	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
655	21.300	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
656	21.200	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
657	21.100	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
658	21.000	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

659	20.900	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
660	20.800	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
661	20.700	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
662	20.600	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
663	20.500	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
664	20.400	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
665	20.300	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
666	20.200	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
667	20.100	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
668	20.000	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
669	19.900	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
670	19.800	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
671	19.700	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
672	19.600	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
673	19.500	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
674	19.400	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
675	19.300	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
676	19.200	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
677	19.100	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
678	19.000	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
679	18.900	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
680	18.800	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
681	18.700	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
682	18.600	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
683	18.500	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
684	18.400	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
685	18.300	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
686	18.200	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
687	18.100	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
688	18.000	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
689	17.900	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
690	17.800	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
691	17.700	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
692	17.600	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
693	17.500	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
694	17.400	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
695	17.300	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
696	17.200	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
697	17.100	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
698	17.000	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
699	16.900	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700	16.800	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
701	16.700	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
702	16.600	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
703	16.500	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
704	16.400	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
705	16.300	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
706	16.200	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
707	16.100	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
708	16.000	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

709	15.900	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
829	15.800	7.65	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.26	1.26	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
830	15.700	7.65	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.26	1.26	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
831	15.600	7.64	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.26	1.26	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
832	15.500	7.64	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.26	1.26	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
833	15.400	7.64	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.26	1.26	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
834	15.300	7.64	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.26	1.26	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
835	15.200	7.64	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
836	15.100	7.63	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
837	15.000	7.63	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
838	14.900	7.63	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
839	14.800	7.63	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
840	14.700	7.63	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
841	14.600	7.62	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
842	14.500	7.62	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
843	14.400	7.62	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
844	14.300	7.62	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
845	14.200	7.61	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
846	14.100	7.61	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
847	14.000	7.61	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
848	13.900	7.61	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
849	13.800	7.61	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
850	13.700	7.60	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
851	13.600	7.60	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
852	13.500	7.60	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
853	13.400	7.60	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
854	13.300	7.60	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
855	13.200	7.59	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
856	13.100	7.59	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
857	13.000	7.59	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
858	12.900	7.59	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
859	12.800	7.59	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
860	12.700	7.58	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
861	12.600	7.58	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
862	12.500	7.58	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
863	12.400	7.58	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
864	12.300	7.57	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
865	12.200	7.57	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
866	12.100	7.57	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
867	12.000	7.57	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
868	11.900	7.57	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
869	11.800	7.56	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
870	11.700	7.56	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
871	11.600	7.56	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
872	11.500	7.56	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
873	11.400	7.56	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
874	11.300	7.55	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
875	11.200	7.55	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
876	11.100	7.55	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
877	11.000	7.55	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

878	10.900	7.55	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1047	10.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1048	10.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1049	10.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1050	10.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1051	10.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1052	10.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1053	10.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1054	10.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1055	10.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1056	9.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1057	9.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1058	9.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1059	9.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1060	9.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1061	9.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1062	9.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1063	9.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1064	9.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1065	9.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1066	8.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1067	8.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1068	8.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1069	8.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070	8.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1071	8.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1072	8.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1073	8.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1074	8.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1075	8.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1076	7.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1077	7.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1078	7.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1079	7.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1080	7.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1081	7.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1082	7.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1083	7.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1084	7.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1085	7.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1086	6.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1087	6.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1088	6.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1089	6.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1090	6.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1091	6.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1092	6.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1093	6.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1094	6.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1095	6.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

1096	5.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1097	5.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1098	5.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1099	5.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100	5.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1101	5.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1102	5.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1103	5.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1104	5.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1105	5.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1106	4.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1107	4.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1108	4.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1109	4.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1110	4.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1111	4.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1112	4.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1113	4.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1114	4.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1115	4.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1116	3.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1117	3.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1118	3.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1119	3.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1120	3.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1121	3.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1122	3.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1123	3.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1124	3.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1125	3.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1126	2.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1127	2.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1128	2.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1129	2.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1130	2.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1131	2.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1132	2.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1133	2.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1134	2.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1135	2.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1136	1.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1137	1.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1138	1.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1139	1.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1140	1.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1141	1.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1142	1.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1143	1.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1144	1.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1145	1.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

1146	0.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1147	0.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1148	0.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1149	0.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1150	0.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1151	0.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1152	0.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1153	0.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1154	0.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1155	0.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SPECIAL REPORT: Bayou Poydras #1
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	FULL SOD *	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
126	10.200	7.97	6.40	0.08	0.00	0.00	0.00	0.00	0.00	1.55	0.86	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	10.100	7.97	6.40	0.12	0.00	0.00	0.00	0.00	0.00	1.55	1.37	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	10.000	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	9.900	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	9.800	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	9.700	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	9.600	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	9.500	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	9.400	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	9.300	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	9.200	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	9.100	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	9.000	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	8.900	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	8.800	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	8.700	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	8.600	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	8.500	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	8.400	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	8.300	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	8.200	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	8.100	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	8.000	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	7.900	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	7.800	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	7.700	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	7.600	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	7.500	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	7.400	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	7.300	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	7.200	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	7.100	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	7.000	7.97	6.42	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

159	6.900	7.97	6.42	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	6.800	7.97	6.42	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	6.700	7.97	6.42	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	6.600	7.97	6.42	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	6.500	7.97	6.42	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	6.400	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	6.300	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	6.200	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167	6.100	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	6.000	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169	5.900	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	5.800	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	5.700	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	5.600	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	5.500	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	5.400	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	5.300	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	5.200	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	5.100	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	5.000	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179	4.900	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	4.800	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
181	4.700	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182	4.600	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183	4.500	7.96	1.33	0.14	0.00	0.00	0.00	0.00	0.00	1.40	1.40	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184	4.400	7.96	1.33	0.14	0.00	0.00	0.00	0.00	0.00	1.41	1.40	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
185	4.300	7.95	1.33	0.14	0.00	0.00	0.00	0.00	0.00	1.41	1.41	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
186	4.200	7.94	1.34	0.14	0.00	0.00	0.00	0.00	0.00	1.41	1.41	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
187	4.100	7.94	1.34	0.14	0.00	0.00	0.00	0.00	0.00	1.42	1.42	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	4.000	7.93	1.35	0.14	0.00	0.00	0.00	0.00	0.00	1.42	1.42	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
189	3.900	7.92	1.38	0.14	0.00	0.00	0.00	0.00	0.00	1.43	1.43	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	3.800	7.92	1.41	0.14	0.00	0.00	0.00	0.00	0.00	1.43	1.43	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
191	3.700	7.91	1.44	0.14	0.00	0.00	0.00	0.00	0.00	1.43	1.43	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
192	3.600	7.91	1.47	0.14	0.00	0.00	0.00	0.00	0.00	1.44	1.44	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
193	3.500	7.90	1.50	0.14	0.00	0.00	0.00	0.00	0.00	1.44	1.44	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
194	3.400	7.89	1.53	0.14	0.00	0.00	0.00	0.00	0.00	1.45	1.45	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195	3.300	7.89	1.56	0.14	0.00	0.00	0.00	0.00	0.00	1.45	1.45	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
196	3.200	7.88	1.58	0.14	0.00	0.00	0.00	0.00	0.00	1.45	1.45	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	3.100	7.88	1.61	0.14	0.00	0.00	0.00	0.00	0.00	1.46	1.46	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198	3.000	7.87	1.64	0.14	0.00	0.00	0.00	0.00	0.00	1.46	1.46	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199	2.900	7.86	1.66	0.14	0.00	0.00	0.00	0.00	0.00	1.47	1.47	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	2.800	7.86	1.69	0.14	0.00	0.00	0.00	0.00	0.00	1.47	1.47	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
201	2.700	7.85	1.71	0.14	0.00	0.00	0.00	0.00	0.00	1.47	1.47	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202	2.600	7.85	1.74	0.14	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
203	2.500	7.84	1.76	0.14	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
204	2.400	7.83	1.79	0.14	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
205	2.300	7.83	1.81	0.14	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
206	2.200	7.82	1.84	0.14	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
207	2.100	7.82	1.86	0.14	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	2.000	7.81	1.88	0.15	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

209	1.900	7.80	1.91	0.15	0.00	0.00	0.00	0.00	0.00	1.51	1.51	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210	1.800	7.80	1.93	0.15	0.00	0.00	0.00	0.00	0.00	1.51	1.51	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
211	1.700	7.79	1.95	0.15	0.00	0.00	0.00	0.00	0.00	1.51	1.51	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212	1.600	7.79	1.98	0.15	0.00	0.00	0.00	0.00	0.00	1.52	1.52	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
213	1.500	7.78	2.00	0.15	0.00	0.00	0.00	0.00	0.00	1.52	1.52	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
214	1.400	7.77	2.02	0.15	0.00	0.00	0.00	0.00	0.00	1.53	1.53	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
215	1.300	7.77	2.04	0.15	0.00	0.00	0.00	0.00	0.00	1.53	1.53	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
216	1.200	7.76	2.06	0.15	0.00	0.00	0.00	0.00	0.00	1.54	1.54	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217	1.100	7.76	2.09	0.15	0.00	0.00	0.00	0.00	0.00	1.54	1.54	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
218	1.000	7.75	2.11	0.15	0.00	0.00	0.00	0.00	0.00	1.54	1.54	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
219	0.900	7.74	2.13	0.15	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220	0.800	7.74	2.15	0.15	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221	0.700	7.73	2.17	0.15	0.00	0.00	0.00	0.00	0.00	1.56	1.56	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
222	0.600	7.73	2.19	0.15	0.00	0.00	0.00	0.00	0.00	1.56	1.56	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	0.500	7.72	2.21	0.15	0.00	0.00	0.00	0.00	0.00	1.56	1.56	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
224	0.400	7.71	2.23	0.15	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225	0.300	7.71	2.26	0.15	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226	0.200	7.70	2.28	0.15	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
227	0.100	7.70	2.30	0.15	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
228	0.000	7.69	2.32	0.15	0.00	0.00	0.00	0.00	0.00	1.59	1.59	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SPECIAL REPORT: Chamberlin Canal #1
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	ABOD#2 SOD 1/da	FULL SOD 1/da	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM	NCM SETT
272	7.400	8.06	7.90	0.17	0.00	0.00	0.00	0.00	0.00	1.94	1.94	0.01	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273	7.300	8.05	7.91	0.17	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.01	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	7.200	8.03	7.94	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	0.01	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
275	7.100	8.02	8.23	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	0.01	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
276	7.000	8.01	8.51	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	0.01	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
277	6.900	8.00	8.79	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	0.01	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
278	6.800	7.99	9.05	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.01	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
279	6.700	7.97	9.32	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	0.01	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
280	6.600	7.96	9.57	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	0.01	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
281	6.500	7.95	9.82	0.18	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.01	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
282	6.400	7.94	10.07	0.18	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.01	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
283	6.300	7.93	10.31	0.18	0.00	0.00	0.00	0.00	0.00	2.06	2.06	0.01	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
284	6.200	7.92	10.55	0.18	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.01	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	6.100	7.90	10.78	0.18	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.01	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	6.000	7.89	11.01	0.18	0.00	0.00	0.00	0.00	0.00	2.09	2.09	0.01	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
287	5.900	7.88	11.24	0.18	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.01	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
288	5.800	7.87	11.46	0.19	0.00	0.00	0.00	0.00	0.00	2.11	2.11	0.01	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289	5.700	7.86	11.57	0.19	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.01	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
290	5.600	7.85	11.59	0.19	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.01	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
291	5.500	7.84	11.60	0.19	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.01	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292	5.400	7.82	11.62	0.19	0.00	0.00	0.00	0.00	0.00	2.15	2.15	0.01	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	5.300	7.81	11.64	0.19	0.00	0.00	0.00	0.00	0.00	2.17	2.17	0.01	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
294	5.200	7.80	11.65	0.19	0.00	0.00	0.00	0.00	0.00	2.18	2.18	0.01	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

295	5.100	7.79	11.67	0.19	0.00	0.00	0.00	0.00	0.00	2.19	2.19	0.01	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
296	5.000	7.78	11.69	0.19	0.00	0.00	0.00	0.00	0.00	2.20	2.20	0.01	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
297	4.900	7.77	11.70	0.19	0.00	0.00	0.00	0.00	0.00	2.21	2.21	0.01	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298	4.800	7.76	11.72	0.19	0.00	0.00	0.00	0.00	0.00	2.22	2.22	0.01	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	4.700	7.75	11.74	0.19	0.00	0.00	0.00	0.00	0.00	2.23	2.23	0.01	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	4.600	7.74	11.75	0.19	0.00	0.00	0.00	0.00	0.00	2.24	2.24	0.01	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
301	4.500	7.72	11.77	0.19	0.00	0.00	0.00	0.00	0.00	2.26	2.26	0.01	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
302	4.400	7.71	11.79	0.20	0.00	0.00	0.00	0.00	0.00	2.27	2.27	0.01	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
303	4.300	7.70	11.80	0.20	0.00	0.00	0.00	0.00	0.00	2.28	2.28	0.01	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
304	4.200	7.69	11.82	0.20	0.00	0.00	0.00	0.00	0.00	2.29	2.29	0.01	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
305	4.100	7.68	2.76	0.20	0.00	0.00	0.00	0.00	0.00	2.30	2.30	0.01	0.00	0.36	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
306	4.000	7.68	2.76	0.20	0.00	0.00	0.00	0.00	0.00	2.31	2.31	0.01	0.00	0.35	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
307	3.900	7.67	2.77	0.20	0.00	0.00	0.00	0.00	0.00	2.32	2.32	0.01	0.00	0.35	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
308	3.800	7.66	2.77	0.20	0.00	0.00	0.00	0.00	0.00	2.32	2.32	0.01	0.00	0.35	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
309	3.700	7.65	2.77	0.20	0.00	0.00	0.00	0.00	0.00	2.33	2.33	0.01	0.00	0.35	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
310	3.600	7.65	2.77	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	0.01	0.00	0.36	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
311	3.500	7.64	2.78	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	0.01	0.00	0.36	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
312	3.400	7.63	2.78	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.01	0.00	0.36	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
313	3.300	7.63	2.78	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	0.01	0.00	0.37	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
314	3.200	7.62	2.78	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	0.01	0.00	0.37	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
315	3.100	7.61	2.79	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	0.01	0.00	0.38	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
316	3.000	7.60	2.79	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	0.01	0.00	0.38	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
317	2.900	7.60	2.79	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	0.01	0.00	0.38	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
318	2.800	7.59	2.80	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	0.01	0.00	0.39	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
319	2.700	7.58	2.80	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.01	0.00	0.39	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
320	2.600	7.57	2.80	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	0.01	0.00	0.39	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00
321	2.500	7.57	2.80	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	0.01	0.00	0.39	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
322	2.400	7.56	2.81	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	0.01	0.00	0.40	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
323	2.300	7.55	2.81	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	0.01	0.00	0.40	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
324	2.200	7.55	2.81	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	0.01	0.00	0.40	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00
325	2.100	7.54	2.81	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.01	0.00	0.41	0.00	0.00	0.00	2.63	0.00	0.00	0.00	0.00
326	2.000	7.53	2.82	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	0.01	0.00	0.41	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
327	1.900	7.52	2.82	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	0.01	0.00	0.41	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
328	1.800	7.52	2.82	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	0.01	0.00	0.41	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00
329	1.700	7.51	2.82	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	0.01	0.00	0.42	0.00	0.00	0.00	3.16	0.00	0.00	0.00	0.00
330	1.600	7.50	2.83	0.21	0.00	0.00	0.00	0.00	0.00	2.51	2.51	0.01	0.00	0.42	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00
331	1.500	7.50	2.83	0.21	0.00	0.00	0.00	0.00	0.00	2.51	2.51	0.01	0.00	0.42	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00
332	1.400	7.49	2.83	0.21	0.00	0.00	0.00	0.00	0.00	2.52	2.52	0.01	0.00	0.42	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
333	1.300	7.48	2.84	0.21	0.00	0.00	0.00	0.00	0.00	2.53	2.53	0.01	0.00	0.43	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00
334	1.200	7.48	2.84	0.21	0.00	0.00	0.00	0.00	0.00	2.54	2.54	0.01	0.00	0.43	0.00	0.00	0.00	3.84	0.00	0.00	0.00	0.00
335	1.100	7.47	2.84	0.21	0.00	0.00	0.00	0.00	0.00	2.55	2.55	0.01	0.00	0.43	0.00	0.00	0.00	3.98	0.00	0.00	0.00	0.00
336	1.000	7.46	2.84	0.21	0.00	0.00	0.00	0.00	0.00	2.56	2.56	0.01	0.00	0.44	0.00	0.00	0.00	4.12	0.00	0.00	0.00	0.00
337	0.900	7.45	2.85	0.21	0.00	0.00	0.00	0.00	0.00	2.57	2.57	0.01	0.00	0.44	0.00	0.00	0.00	4.26	0.00	0.00	0.00	0.00
338	0.800	7.45	2.85	0.21	0.00	0.00	0.00	0.00	0.00	2.58	2.58	0.01	0.00	0.44	0.00	0.00	0.00	4.40	0.00	0.00	0.00	0.00
339	0.700	7.44	2.85	0.21	0.00	0.00	0.00	0.00	0.00	2.59	2.59	0.01	0.00	0.44	0.00	0.00	0.00	4.54	0.00	0.00	0.00	0.00
340	0.600	7.43	2.85	0.22	0.00	0.00	0.00	0.00	0.00	2.59	2.59	0.01	0.00	0.45	0.00	0.00	0.00	4.68	0.00	0.00	0.00	0.00
341	0.500	7.43	2.86	0.22	0.00	0.00	0.00	0.00	0.00	2.60	2.60	0.01	0.00	0.45	0.00	0.00	0.00	4.82	0.00	0.00	0.00	0.00
342	0.400	7.42	2.86	0.22	0.00	0.00	0.00	0.00	0.00	2.61	2.61	0.01	0.00	0.45	0.00	0.00	0.00	4.97	0.00	0.00	0.00	0.00
343	0.300	7.41	2.86	0.22	0.00	0.00	0.00	0.00	0.00	2.62	2.62	0.01	0.00	0.45	0.00	0.00	0.00	5.11	0.00	0.00	0.00	0.00
344	0.200	7.41	2.86	0.22	0.00	0.00	0.00	0.00	0.00	2.63	2.63	0.01	0.00	0.46	0.00	0.00	0.00	5.25	0.00	0.00	0.00	0.00

345	0.100	7.40	2.87	0.22	0.00	0.00	0.00	0.00	0.00	2.64	2.64	0.01	0.00	0.46	0.00	0.00	0.00	5.40	0.00	0.00	0.00	0.00
346	0.000	7.39	2.87	0.22	0.00	0.00	0.00	0.00	0.00	2.65	2.65	0.01	0.00	0.46	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00

SPECIAL REPORT: Intracoastal Waterwa
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	ABOD#2 SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORG-N SETT **	ORG-N DECAY **	NH3 SRCE 1/da	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM DECAY	NCM SETT
420	13.300	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
421	13.200	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
422	13.100	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
423	13.000	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
424	12.900	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
425	12.800	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
426	12.700	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
427	12.600	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
428	12.500	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
429	12.400	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
430	12.300	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
431	12.200	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
432	12.100	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
433	12.000	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
434	11.900	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
435	11.800	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
436	11.700	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
437	11.600	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
438	11.500	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
439	11.400	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
440	11.300	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
441	11.200	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
442	11.100	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
443	11.000	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
444	10.900	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
445	10.800	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
446	10.700	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
447	10.600	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
448	10.500	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
449	10.400	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
450	10.300	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
451	10.200	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
452	10.100	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
453	10.000	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
454	9.900	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
455	9.800	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
456	9.700	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
457	9.600	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
458	9.500	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
459	9.400	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
460	9.300	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

461	9.200	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
462	9.100	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
463	9.000	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
464	8.900	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
465	8.800	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
466	8.700	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
467	8.600	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
468	8.500	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
469	8.400	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470	8.300	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
471	8.200	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
472	8.100	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
473	8.000	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
474	7.900	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
475	7.800	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
476	7.700	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
477	7.600	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
478	7.500	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
479	7.400	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
480	7.300	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
481	7.200	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
482	7.100	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
483	7.000	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
484	6.900	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
485	6.800	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
486	6.700	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
487	6.600	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
488	6.500	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
489	6.400	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
490	6.300	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
491	6.200	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
492	6.100	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
493	6.000	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
494	5.900	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
495	5.800	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
496	5.700	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
497	5.600	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
498	5.500	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
499	5.400	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500	5.300	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
501	5.200	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502	5.100	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
503	5.000	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
504	4.900	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
505	4.800	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
506	4.700	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
507	4.600	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
508	4.500	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
509	4.400	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
510	4.300	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

511	4.200	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
512	4.100	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
513	4.000	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
514	3.900	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
515	3.800	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
516	3.700	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
517	3.600	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
518	3.500	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
519	3.400	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
520	3.300	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
521	3.200	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
522	3.100	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
523	3.000	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
524	2.900	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
525	2.800	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
526	2.700	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
527	2.600	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
528	2.500	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
529	2.400	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
530	2.300	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
531	2.200	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
532	2.100	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
533	2.000	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
534	1.900	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
535	1.800	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
536	1.700	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
537	1.600	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
538	1.500	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
539	1.400	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
540	1.300	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
541	1.200	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
542	1.100	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
543	1.000	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
544	0.900	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
545	0.800	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
546	0.700	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
547	0.600	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
548	0.500	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
549	0.400	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
550	0.300	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
551	0.200	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
552	0.100	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
553	0.000	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SPECIAL REPORT: Bayou Plaquemine
BIOLOGICAL AND PHYSICAL COEFFICIENTS

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

710	11.800	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.37	0.00	0.00	0.00	4.37	0.00	0.00	0.00	0.00
711	11.700	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.37	0.00	0.00	0.00	4.33	0.00	0.00	0.00	0.00
712	11.600	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.37	0.00	0.00	0.00	4.29	0.00	0.00	0.00	0.00
713	11.500	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	4.26	0.00	0.00	0.00	0.00
714	11.400	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	4.22	0.00	0.00	0.00	0.00
715	11.300	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	4.18	0.00	0.00	0.00	0.00
716	11.200	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	4.15	0.00	0.00	0.00	0.00
717	11.100	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	4.11	0.00	0.00	0.00	0.00
718	11.000	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	4.07	0.00	0.00	0.00	0.00
719	10.900	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	4.04	0.00	0.00	0.00	0.00
720	10.800	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00
721	10.700	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	3.96	0.00	0.00	0.00	0.00
722	10.600	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	3.93	0.00	0.00	0.00	0.00
723	10.500	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	3.89	0.00	0.00	0.00	0.00
724	10.400	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	3.85	0.00	0.00	0.00	0.00
725	10.300	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	3.82	0.00	0.00	0.00	0.00
726	10.200	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00
727	10.100	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.74	0.00	0.00	0.00	0.00
728	10.000	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00
729	9.900	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.67	0.00	0.00	0.00	0.00
730	9.800	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.63	0.00	0.00	0.00	0.00
731	9.700	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00
732	9.600	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.56	0.00	0.00	0.00	0.00
733	9.500	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.52	0.00	0.00	0.00	0.00
734	9.400	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.49	0.00	0.00	0.00	0.00
735	9.300	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.45	0.00	0.00	0.00	0.00
736	9.200	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.41	0.00	0.00	0.00	0.00
737	9.100	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.38	0.00	0.00	0.00	0.00
738	9.000	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.34	0.00	0.00	0.00	0.00
739	8.900	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00
740	8.800	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
741	8.700	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00
742	8.600	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
743	8.500	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00
744	8.400	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00
745	8.300	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
746	8.200	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
747	8.100	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
748	8.000	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00
749	7.900	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
750	7.800	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
751	7.700	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
752	7.600	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
753	7.500	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
754	7.400	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
755	7.300	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
756	7.200	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
757	7.100	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00
758	7.000	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.60	0.00	0.00	0.00	0.00
759	6.900	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.56	0.00	0.00	0.00	0.00

760	6.800	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.53	0.00	0.00	0.00	0.00
761	6.700	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.49	0.00	0.00	0.00	0.00
762	6.600	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.45	0.00	0.00	0.00	0.00
763	6.500	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.42	0.00	0.00	0.00	0.00
764	6.400	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00
765	6.300	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.34	0.00	0.00	0.00	0.00
766	6.200	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
767	6.100	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.27	0.00	0.00	0.00	0.00
768	6.000	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00
769	5.900	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
770	5.800	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
771	5.700	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
772	5.600	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
773	5.500	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
774	5.400	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00
775	5.300	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
776	5.200	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
777	5.100	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
778	5.000	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.00
779	4.900	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
780	4.800	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00
781	4.700	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00
782	4.600	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
783	4.500	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
784	4.400	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
785	4.300	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
786	4.200	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
787	4.100	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00
788	4.000	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
789	3.900	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
790	3.800	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
791	3.700	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
792	3.600	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
793	3.500	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
794	3.400	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
795	3.300	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
796	3.200	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.38	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
797	3.100	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.38	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
798	3.000	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
799	2.900	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
800	2.800	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
801	2.700	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
802	2.600	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
803	2.500	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
804	2.400	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
805	2.300	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.36	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
806	2.200	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.36	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
807	2.100	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.36	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
808	2.000	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.36	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
809	1.900	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.36	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00

810	1.800	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.36	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
811	1.700	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.35	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
812	1.600	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.35	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
813	1.500	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.35	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
814	1.400	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.35	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
815	1.300	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.35	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
816	1.200	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.34	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
817	1.100	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.34	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
818	1.000	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.34	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
819	0.900	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.34	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
820	0.800	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.34	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
821	0.700	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.33	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
822	0.600	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.33	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
823	0.500	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.33	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
824	0.400	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.32	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
825	0.300	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.32	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
826	0.200	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.32	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
827	0.100	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.32	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
828	0.000	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.02	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SPECIAL REPORT: Upper Grand River #1
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	ABOD#2 SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORG-N SETT **	ORG-N DECAY **	NH3 SRCE 1/da	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM DECAY	NCM SETT
879	12.300	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.40	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
880	12.200	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.40	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
881	12.100	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.39	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
882	12.000	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.03	0.00	0.38	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
883	11.900	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.03	0.00	0.38	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
884	11.800	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.03	0.00	0.37	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
885	11.700	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.03	0.00	0.37	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
886	11.600	7.38	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.03	0.00	0.36	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
887	11.500	7.38	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.29	3.29	0.03	0.00	0.36	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
888	11.400	7.38	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.28	3.28	0.03	0.00	0.35	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
889	11.300	7.38	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.28	3.28	0.03	0.00	0.34	0.00	0.00	0.00	2.77	0.00	0.00	0.00	0.00
890	11.200	7.38	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.28	3.28	0.03	0.00	0.34	0.00	0.00	0.00	2.77	0.00	0.00	0.00	0.00
891	11.100	7.38	0.85	0.50	0.00	0.00	0.00	0.00	0.00	3.28	3.27	0.03	0.00	0.33	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
892	11.000	7.38	0.85	0.49	0.00	0.00	0.00	0.00	0.00	3.28	3.18	0.03	0.00	0.31	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
893	10.900	7.38	0.85	0.48	0.00	0.00	0.00	0.00	0.00	3.28	3.10	0.03	0.00	0.28	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
894	10.800	7.38	0.85	0.47	0.00	0.00	0.00	0.00	0.00	3.27	3.04	0.03	0.00	0.26	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
895	10.700	7.38	0.85	0.46	0.00	0.00	0.00	0.00	0.00	3.27	2.99	0.03	0.00	0.24	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00
896	10.600	7.39	0.85	0.45	0.00	0.00	0.00	0.00	0.00	3.27	2.94	0.03	0.00	0.23	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00
897	10.500	7.39	0.85	0.45	0.00	0.00	0.00	0.00	0.00	3.27	2.91	0.03	0.00	0.22	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
898	10.400	7.39	0.85	0.45	0.00	0.00	0.00	0.00	0.00	3.27	2.89	0.03	0.00	0.22	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
899	10.300	7.39	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.26	2.87	0.03	0.00	0.21	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
900	10.200	7.39	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.26	2.86	0.03	0.00	0.21	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
901	10.100	7.39	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.26	2.85	0.03	0.00	0.21	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
902	10.000	7.39	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.26	2.84	0.03	0.00	0.20	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00

903	9.900	7.39	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.26	2.84	0.03	0.00	0.20	0.00	0.00	0.00	2.84	0.00	0.00	0.00	0.00
904	9.800	7.39	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.26	2.84	0.03	0.00	0.20	0.00	0.00	0.00	2.84	0.00	0.00	0.00	0.00
905	9.700	7.40	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.25	2.84	0.03	0.00	0.21	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
906	9.600	7.40	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.25	2.85	0.02	0.00	0.21	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
907	9.500	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.36	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
908	9.400	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.36	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
909	9.300	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.36	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
910	9.200	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.02	0.00	0.36	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
911	9.100	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.36	0.00	0.00	0.00	2.88	0.00	0.00	0.00	0.00
912	9.000	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.36	0.00	0.00	0.00	2.88	0.00	0.00	0.00	0.00
913	8.900	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.35	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
914	8.800	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.35	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
915	8.700	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.35	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
916	8.600	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.02	0.00	0.35	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
917	8.500	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.35	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
918	8.400	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.35	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
919	8.300	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.35	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00
920	8.200	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.35	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00
921	8.100	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.35	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
922	8.000	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.02	0.00	0.35	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
923	7.900	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.02	0.00	0.35	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
924	7.800	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.02	0.00	0.35	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
925	7.700	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.02	0.00	0.35	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
926	7.600	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.02	0.00	0.35	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00
927	7.500	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.02	0.00	0.35	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00
928	7.400	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.02	0.00	0.35	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
929	7.300	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.02	0.00	0.35	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
930	7.200	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.02	0.00	0.35	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00
931	7.100	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.02	0.00	0.35	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00
932	7.000	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.02	0.00	0.35	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
933	6.900	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.02	0.00	0.36	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
934	6.800	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.02	0.00	0.36	0.00	0.00	0.00	2.99	0.00	0.00	0.00	0.00
935	6.700	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.02	0.00	0.36	0.00	0.00	0.00	2.99	0.00	0.00	0.00	0.00
936	6.600	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.02	0.00	0.36	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
937	6.500	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.02	0.00	0.36	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
938	6.400	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.02	0.00	0.36	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
939	6.300	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.02	0.00	0.36	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
940	6.200	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.02	0.00	0.36	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
941	6.100	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.02	0.00	0.36	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
942	6.000	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.02	0.00	0.36	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00
943	5.900	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.02	0.00	0.36	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00
944	5.800	7.44	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.02	0.00	0.36	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
945	5.700	7.44	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.02	0.00	0.36	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
946	5.600	7.44	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.02	0.00	0.37	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
947	5.500	7.44	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.02	0.00	0.37	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
948	5.400	7.44	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.02	0.00	0.37	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
949	5.300	7.44	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.02	0.00	0.37	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00
950	5.200	7.44	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.02	0.00	0.37	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00
951	5.100	7.44	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.02	0.00	0.37	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
952	5.000	7.44	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.02	0.00	0.37	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00

953	4.900	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.02	0.00	0.37	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
954	4.800	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.02	0.00	0.37	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
955	4.700	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.02	0.00	0.37	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
956	4.600	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.02	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
957	4.500	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.02	0.00	0.38	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00
958	4.400	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.02	0.00	0.38	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00
959	4.300	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.02	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
960	4.200	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.02	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
961	4.100	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.02	0.00	0.38	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00
962	4.000	7.46	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.02	0.00	0.38	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00
1007	3.900	7.46	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.02	0.00	0.39	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
1008	3.800	7.46	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.02	0.00	0.39	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
1009	3.700	7.46	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.02	0.00	0.39	0.00	0.00	0.00	2.88	0.00	0.00	0.00	0.00
1010	3.600	7.46	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.14	3.14	0.02	0.00	0.39	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00
1011	3.500	7.47	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.14	3.14	0.02	0.00	0.39	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
1012	3.400	7.47	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.14	3.14	0.02	0.00	0.39	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00
1013	3.300	7.47	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.13	3.13	0.02	0.00	0.39	0.00	0.00	0.00	2.56	0.00	0.00	0.00	0.00
1014	3.200	7.47	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.13	3.13	0.02	0.00	0.39	0.00	0.00	0.00	2.48	0.00	0.00	0.00	0.00
1015	3.100	7.48	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.13	3.13	0.02	0.00	0.39	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00
1016	3.000	7.48	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.12	3.12	0.02	0.00	0.39	0.00	0.00	0.00	2.32	0.00	0.00	0.00	0.00
1017	2.900	7.48	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.12	3.12	0.02	0.00	0.39	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
1018	2.800	7.48	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.12	3.12	0.02	0.00	0.39	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
1019	2.700	7.48	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.11	3.11	0.02	0.00	0.39	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
1020	2.600	7.49	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.11	3.11	0.02	0.00	0.39	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00
1021	2.500	7.49	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.11	3.11	0.02	0.00	0.39	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
1022	2.400	7.49	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.10	3.10	0.02	0.00	0.39	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
1023	2.300	7.49	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.10	3.10	0.02	0.00	0.39	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
1024	2.200	7.50	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.10	3.10	0.02	0.00	0.39	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
1025	2.100	7.50	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.02	0.00	0.39	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
1026	2.000	7.50	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.02	0.00	0.39	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00
1027	1.900	7.50	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.02	0.00	0.38	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
1028	1.800	7.50	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.08	3.08	0.02	0.00	0.38	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
1029	1.700	7.51	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.08	3.08	0.02	0.00	0.38	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
1030	1.600	7.51	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.08	3.08	0.02	0.00	0.38	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
1031	1.500	7.51	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.07	3.07	0.02	0.00	0.38	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
1032	1.400	7.51	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.07	3.07	0.02	0.00	0.38	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
1033	1.300	7.52	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.07	3.07	0.02	0.00	0.38	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
1034	1.200	7.52	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.02	0.00	0.38	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
1035	1.100	7.52	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.02	0.00	0.38	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
1036	1.000	7.52	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.02	0.00	0.38	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
1037	0.900	7.53	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.05	3.05	0.02	0.00	0.38	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
1038	0.800	7.53	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.05	3.05	0.02	0.00	0.38	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
1039	0.700	7.53	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.05	3.05	0.02	0.00	0.38	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
1040	0.600	7.53	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.38	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
1041	0.500	7.53	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.38	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
1042	0.400	7.54	0.93	0.48	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.37	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
1043	0.300	7.54	0.93	0.48	0.00	0.00	0.00	0.00	0.00	3.03	3.03	0.02	0.00	0.37	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
1044	0.200	7.54	0.93	0.48	0.00	0.00	0.00	0.00	0.00	3.03	3.03	0.02	0.00	0.37	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
1045	0.100	7.54	0.93	0.48	0.00	0.00	0.00	0.00	0.00	3.03	3.03	0.02	0.00	0.37	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
1046	0.000	7.55	0.93	0.48	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SPECIAL REPORT: Lower Flat River
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	ABOD#2 SOD 1/da	FULL SOD 1/da	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM DECAY	NCM SETT
963	4.300	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.52	2.52	0.02	0.00	0.43	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
964	4.200	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.52	2.52	0.02	0.00	0.43	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00
965	4.100	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.52	2.52	0.02	0.00	0.42	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00
966	4.000	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.52	2.52	0.02	0.00	0.42	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00
967	3.900	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.52	2.52	0.02	0.00	0.42	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00
968	3.800	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.52	2.52	0.02	0.00	0.41	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00
969	3.700	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	0.02	0.00	0.41	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00
970	3.600	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	0.02	0.00	0.41	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00
971	3.500	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	0.02	0.00	0.41	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.00
972	3.400	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	0.02	0.00	0.40	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00
973	3.300	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	0.02	0.00	0.40	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00
974	3.200	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	0.02	0.00	0.40	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.00
975	3.100	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	0.02	0.00	0.40	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00	0.00
976	3.000	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	0.02	0.00	0.40	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00
977	2.900	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	0.02	0.00	0.40	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.00
978	2.800	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00
979	2.700	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	0.00
980	2.600	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.00
981	2.500	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00	0.00
982	2.400	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00
983	2.300	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00	0.00
984	2.200	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.00
985	2.100	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00	0.00
986	2.000	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00	0.00
987	1.900	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00	0.00
988	1.800	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00	0.00
989	1.700	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00	0.00
990	1.600	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00	0.00
991	1.500	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00	0.00
992	1.400	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00	0.00
993	1.300	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00	0.00
994	1.200	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00	0.00
995	1.100	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	2.33	0.00	0.00	0.00	0.00	0.00
996	1.000	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	0.02	0.00	0.39	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	0.00
997	0.900	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	0.02	0.00	0.39	0.00	0.00	0.00	2.47	0.00	0.00	0.00	0.00	0.00
998	0.800	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	0.02	0.00	0.39	0.00	0.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00
999	0.700	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	0.02	0.00	0.40	0.00	0.00	0.00	2.62	0.00	0.00	0.00	0.00	0.00
1000	0.600	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	0.02	0.00	0.40	0.00	0.00	0.00	2.69	0.00	0.00	0.00	0.00	0.00
1001	0.500	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	0.02	0.00	0.40	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00	0.00
1002	0.400	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	0.02	0.00	0.40	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00	0.00
1003	0.300	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	0.02	0.00	0.40	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00	0.00
1004	0.200	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	0.02	0.00	0.40	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00	0.00
1005	0.100	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.57	2.57	0.02	0.00	0.40	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00	0.00

1006 0.000 7.46 1.31 0.49 0.00 0.00 0.00 0.00 0.00 2.57 2.57 0.02 0.00 0.40 0.00 0.00 0.00 3.12 0.00 0.00 0.00 0.00
SPECIAL REPORT: Bayou Cholpe #1
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m≥/s	ADVCTV m/s	DEPTH m	WIDTH m	VOLUME AREA m≥	SURFACE AREA m≤	X-SECT PRISM m≤	TIDAL VELO m/s	TIDAL VELO m≤/s	DISPRSN m≥/s	MEAN VELO m/s
1	55.60	55.50	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
2	55.50	55.40	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
3	55.40	55.30	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
4	55.30	55.20	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
5	55.20	55.10	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
6	55.10	55.00	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
7	55.00	54.90	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
8	54.90	54.80	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
9	54.80	54.70	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
10	54.70	54.60	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
11	54.60	54.50	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
12	54.50	54.40	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
13	54.40	54.30	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
14	54.30	54.20	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
15	54.20	54.10	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
16	54.10	54.00	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
17	54.00	53.90	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
18	53.90	53.80	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
19	53.80	53.70	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
20	53.70	53.60	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
21	53.60	53.50	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
22	53.50	53.40	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
23	53.40	53.30	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
24	53.30	53.20	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
25	53.20	53.10	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
26	53.10	53.00	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
27	53.00	52.90	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
28	52.90	52.80	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
29	52.80	52.70	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
30	52.70	52.60	0.0949	0.379	0.25	1.0	25.	100.0	0.2	0.	0.000	0.000	0.379
31	52.60	52.50	0.1010	0.010	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.010
32	52.50	52.40	0.1072	0.011	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.011
33	52.40	52.30	0.1133	0.011	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.011
34	52.30	52.20	0.1195	0.012	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.012
35	52.20	52.10	0.1256	0.013	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.013
36	52.10	52.00	0.1318	0.013	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.013
37	52.00	51.90	0.1379	0.014	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.014
38	51.90	51.80	0.1441	0.014	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.014
39	51.80	51.70	0.1502	0.015	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.015
40	51.70	51.60	0.1564	0.016	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.016
41	51.60	51.50	0.1626	0.016	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.016
42	51.50	51.40	0.1687	0.017	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.017

43	51.40	51.30	0.1749	0.017	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.017
44	51.30	51.20	0.1810	0.018	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.018
45	51.20	51.10	0.1872	0.019	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.019
46	51.10	51.00	0.1933	0.019	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.019
47	51.00	50.90	0.1995	0.020	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.020
48	50.90	50.80	0.2056	0.021	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.021
49	50.80	50.70	0.2118	0.021	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.021
50	50.70	50.60	0.2179	0.022	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.022
51	50.60	50.50	0.2241	0.022	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.022
52	50.50	50.40	0.2303	0.023	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.023
53	50.40	50.30	0.2364	0.024	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.024
54	50.30	50.20	0.2426	0.024	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.024
55	50.20	50.10	0.2487	0.025	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.025
56	50.10	50.00	0.2549	0.025	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.025
57	50.00	49.90	0.2610	0.026	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.026
58	49.90	49.80	0.2672	0.027	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.027
59	49.80	49.70	0.2733	0.027	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.027
60	49.70	49.60	0.2795	0.028	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.028
61	49.60	49.50	0.2856	0.029	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.029
62	49.50	49.40	0.2918	0.029	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.029
63	49.40	49.30	0.2980	0.030	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.030
64	49.30	49.20	0.3041	0.030	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.030
65	49.20	49.10	0.3103	0.031	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.031
66	49.10	49.00	0.3164	0.032	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.032
67	49.00	48.90	0.3226	0.032	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.032
68	48.90	48.80	0.3287	0.033	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.033
69	48.80	48.70	0.3349	0.033	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.033
70	48.70	48.60	0.3410	0.034	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.034
71	48.60	48.50	0.3472	0.035	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.035
72	48.50	48.40	0.3533	0.035	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.035
73	48.40	48.30	0.3595	0.036	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.036
74	48.30	48.20	0.3657	0.037	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.037
75	48.20	48.10	0.3718	0.037	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.037
76	48.10	48.00	0.3780	0.038	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.038
77	48.00	47.90	0.3841	0.038	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.038
78	47.90	47.80	0.3903	0.039	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.039
79	47.80	47.70	0.3964	0.040	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.040
80	47.70	47.60	0.4026	0.040	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.040
81	47.60	47.50	0.4087	0.041	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.041
82	47.50	47.40	0.4149	0.041	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.041
83	47.40	47.30	0.4211	0.042	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.042
84	47.30	47.20	0.4272	0.043	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.043
85	47.20	47.10	0.4334	0.043	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.043
86	47.10	47.00	0.4395	0.044	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.044
87	47.00	46.90	0.4457	0.045	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.045
88	46.90	46.80	0.4518	0.045	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.045
89	46.80	46.70	0.4580	0.046	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.046
90	46.70	46.60	0.4641	0.046	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.046
91	46.60	46.50	0.4703	0.047	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.047
92	46.50	46.40	0.4764	0.048	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.048

93	46.40	46.30	0.4826	0.048	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.048
94	46.30	46.20	0.4888	0.049	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.049
95	46.20	46.10	0.4949	0.049	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.049
96	46.10	46.00	0.5011	0.050	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.050
97	46.00	45.90	0.5072	0.051	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.051
98	45.90	45.80	0.5134	0.051	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.051
99	45.80	45.70	0.5195	0.052	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.052
100	45.70	45.60	0.5257	0.053	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.053
101	45.60	45.50	0.5318	0.053	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.053
102	45.50	45.40	0.5380	0.054	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.054
103	45.40	45.30	0.5441	0.054	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.054
104	45.30	45.20	0.5503	0.055	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.055
105	45.20	45.10	0.5565	0.056	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.056
106	45.10	45.00	0.5626	0.056	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.056
107	45.00	44.90	0.5688	0.057	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.057
108	44.90	44.80	0.5749	0.057	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.057
109	44.80	44.70	0.5811	0.058	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.058
110	44.70	44.60	0.5872	0.059	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.059
111	44.60	44.50	0.5934	0.059	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.059
112	44.50	44.40	0.5995	0.060	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.060
113	44.40	44.30	0.6057	0.061	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.061
114	44.30	44.20	0.6118	0.061	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.061
115	44.20	44.10	0.6180	0.062	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.062
116	44.10	44.00	0.6242	0.062	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.062
117	44.00	43.90	0.6303	0.063	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.063
118	43.90	43.80	0.6365	0.064	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.064
119	43.80	43.70	0.6426	0.064	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.064
120	43.70	43.60	0.6488	0.065	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.065
121	43.60	43.50	0.6549	0.065	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.065
122	43.50	43.40	0.6611	0.066	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.066
123	43.40	43.30	0.6672	0.067	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.067
124	43.30	43.20	0.6734	0.067	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.067
125	43.20	43.10	0.6795	0.068	1.00	10.0	1000.	1000.0	10.0	0.	0.000	0.000	0.068
229	43.10	43.00	0.9371	0.011	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.011
230	43.00	42.90	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
231	42.90	42.80	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
232	42.80	42.70	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
233	42.70	42.60	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
234	42.60	42.50	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
235	42.50	42.40	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
236	42.40	42.30	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
237	42.30	42.20	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
238	42.20	42.10	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
239	42.10	42.00	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
240	42.00	41.90	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
241	41.90	41.80	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
242	41.80	41.70	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
243	41.70	41.60	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
244	41.60	41.50	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
245	41.50	41.40	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016

246	41.40	41.30	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
247	41.30	41.20	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
248	41.20	41.10	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
249	41.10	41.00	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
250	41.00	40.90	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
251	40.90	40.80	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
252	40.80	40.70	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
253	40.70	40.60	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
254	40.60	40.50	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
255	40.50	40.40	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
256	40.40	40.30	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
257	40.30	40.20	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
258	40.20	40.10	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
259	40.10	40.00	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
260	40.00	39.90	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
261	39.90	39.80	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
262	39.80	39.70	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
263	39.70	39.60	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
264	39.60	39.50	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
265	39.50	39.40	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
266	39.40	39.30	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
267	39.30	39.20	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
268	39.20	39.10	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
269	39.10	39.00	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
270	39.00	38.90	1.3165	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
271	38.90	38.80	1.3167	0.016	2.40	34.0	8160.	3400.0	81.6	0.	0.000	0.000	0.016
347	38.80	38.70	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
348	38.70	38.60	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
349	38.60	38.50	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
350	38.50	38.40	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
351	38.40	38.30	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
352	38.30	38.20	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
353	38.20	38.10	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
354	38.10	38.00	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
355	38.00	37.90	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
356	37.90	37.80	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
357	37.80	37.70	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
358	37.70	37.60	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
359	37.60	37.50	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
360	37.50	37.40	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
361	37.40	37.30	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
362	37.30	37.20	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
363	37.20	37.10	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
364	37.10	37.00	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
365	37.00	36.90	1.3259	0.010	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.010
366	36.90	36.80	1.5609	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
367	36.80	36.70	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
368	36.70	36.60	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
369	36.60	36.50	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
370	36.50	36.40	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012

371	36.40	36.30	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
372	36.30	36.20	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
373	36.20	36.10	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
374	36.10	36.00	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
375	36.00	35.90	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
376	35.90	35.80	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
377	35.80	35.70	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
378	35.70	35.60	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
379	35.60	35.50	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
380	35.50	35.40	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
381	35.40	35.30	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
382	35.30	35.20	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
383	35.20	35.10	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
384	35.10	35.00	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
385	35.00	34.90	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
386	34.90	34.80	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
387	34.80	34.70	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
388	34.70	34.60	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
389	34.60	34.50	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
390	34.50	34.40	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
391	34.40	34.30	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
392	34.30	34.20	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
393	34.20	34.10	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
394	34.10	34.00	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
395	34.00	33.90	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
396	33.90	33.80	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
397	33.80	33.70	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
398	33.70	33.60	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
399	33.60	33.50	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
400	33.50	33.40	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
401	33.40	33.30	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
402	33.30	33.20	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
403	33.20	33.10	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
404	33.10	33.00	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
405	33.00	32.90	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
406	32.90	32.80	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
407	32.80	32.70	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
408	32.70	32.60	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
409	32.60	32.50	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
410	32.50	32.40	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
411	32.40	32.30	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
412	32.30	32.20	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
413	32.20	32.10	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
414	32.10	32.00	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
415	32.00	31.90	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
416	31.90	31.80	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
417	31.80	31.70	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
418	31.70	31.60	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
419	31.60	31.50	1.5797	0.012	2.80	47.0	13160.	4700.0	131.6	0.	0.000	0.000	0.012
554	31.50	31.40	9.1435	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040

555	31.40	31.30	9.1435	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
556	31.30	31.20	9.1435	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
557	31.20	31.10	9.1435	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
558	31.10	31.00	9.1435	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
559	31.00	30.90	9.1435	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
560	30.90	30.80	9.1435	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
561	30.80	30.70	9.1435	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
562	30.70	30.60	9.1435	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
563	30.60	30.50	9.1435	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
564	30.50	30.40	9.1435	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
565	30.40	30.30	9.1435	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
566	30.30	30.20	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
567	30.20	30.10	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
568	30.10	30.00	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
569	30.00	29.90	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
570	29.90	29.80	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
571	29.80	29.70	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
572	29.70	29.60	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
573	29.60	29.50	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
574	29.50	29.40	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
575	29.40	29.30	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
576	29.30	29.20	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
577	29.20	29.10	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
578	29.10	29.00	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
579	29.00	28.90	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
580	28.90	28.80	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
581	28.80	28.70	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
582	28.70	28.60	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
583	28.60	28.50	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
584	28.50	28.40	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
585	28.40	28.30	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
586	28.30	28.20	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
587	28.20	28.10	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
588	28.10	28.00	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
589	28.00	27.90	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
590	27.90	27.80	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
591	27.80	27.70	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
592	27.70	27.60	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
593	27.60	27.50	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
594	27.50	27.40	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
595	27.40	27.30	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
596	27.30	27.20	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
597	27.20	27.10	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
598	27.10	27.00	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
599	27.00	26.90	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
600	26.90	26.80	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
601	26.80	26.70	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
602	26.70	26.60	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
603	26.60	26.50	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
604	26.50	26.40	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040

605	26.40	26.30	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
606	26.30	26.20	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
607	26.20	26.10	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
608	26.10	26.00	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
609	26.00	25.90	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
610	25.90	25.80	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
611	25.80	25.70	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
612	25.70	25.60	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
613	25.60	25.50	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
614	25.50	25.40	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
615	25.40	25.30	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
616	25.30	25.20	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
617	25.20	25.10	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
618	25.10	25.00	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
619	25.00	24.90	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
620	24.90	24.80	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
621	24.80	24.70	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
622	24.70	24.60	9.1436	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
623	24.60	24.50	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
624	24.50	24.40	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
625	24.40	24.30	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
626	24.30	24.20	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
627	24.20	24.10	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
628	24.10	24.00	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
629	24.00	23.90	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
630	23.90	23.80	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
631	23.80	23.70	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
632	23.70	23.60	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
633	23.60	23.50	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
634	23.50	23.40	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
635	23.40	23.30	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
636	23.30	23.20	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
637	23.20	23.10	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
638	23.10	23.00	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
639	23.00	22.90	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
640	22.90	22.80	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
641	22.80	22.70	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
642	22.70	22.60	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
643	22.60	22.50	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
644	22.50	22.40	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
645	22.40	22.30	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
646	22.30	22.20	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
647	22.20	22.10	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
648	22.10	22.00	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
649	22.00	21.90	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
650	21.90	21.80	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
651	21.80	21.70	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
652	21.70	21.60	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
653	21.60	21.50	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
654	21.50	21.40	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040

655	21.40	21.30	9.1437	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
656	21.30	21.20	9.1438	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
657	21.20	21.10	9.1438	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
658	21.10	21.00	9.1438	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
659	21.00	20.90	9.1438	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
660	20.90	20.80	9.1438	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
661	20.80	20.70	9.1438	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
662	20.70	20.60	9.1438	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
663	20.60	20.50	9.1438	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
664	20.50	20.40	9.1438	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
665	20.40	20.30	9.1438	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
666	20.30	20.20	9.1483	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
667	20.20	20.10	9.1483	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
668	20.10	20.00	9.1483	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
669	20.00	19.90	9.1483	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
670	19.90	19.80	9.1483	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
671	19.80	19.70	9.1483	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
672	19.70	19.60	9.1483	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
673	19.60	19.50	9.1483	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
674	19.50	19.40	9.1484	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
675	19.40	19.30	9.1484	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
676	19.30	19.20	9.1484	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
677	19.20	19.10	9.1484	0.040	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.040
678	19.10	19.00	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
679	19.00	18.90	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
680	18.90	18.80	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
681	18.80	18.70	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
682	18.70	18.60	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
683	18.60	18.50	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
684	18.50	18.40	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
685	18.40	18.30	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
686	18.30	18.20	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
687	18.20	18.10	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
688	18.10	18.00	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
689	18.00	17.90	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
690	17.90	17.80	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
691	17.80	17.70	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
692	17.70	17.60	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
693	17.60	17.50	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
694	17.50	17.40	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
695	17.40	17.30	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
696	17.30	17.20	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
697	17.20	17.10	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
698	17.10	17.00	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
699	17.00	16.90	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
700	16.90	16.80	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
701	16.80	16.70	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
702	16.70	16.60	10.5074	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
703	16.60	16.50	10.5075	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
704	16.50	16.40	10.5075	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046

705	16.40	16.30	10.5075	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
706	16.30	16.20	10.5075	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
707	16.20	16.10	10.5075	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
708	16.10	16.00	10.5075	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
709	16.00	15.90	10.5075	0.046	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.046
829	15.90	15.80	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
830	15.80	15.70	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
831	15.70	15.60	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
832	15.60	15.50	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
833	15.50	15.40	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
834	15.40	15.30	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
835	15.30	15.20	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
836	15.20	15.10	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
837	15.10	15.00	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
838	15.00	14.90	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
839	14.90	14.80	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
840	14.80	14.70	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
841	14.70	14.60	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
842	14.60	14.50	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
843	14.50	14.40	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
844	14.40	14.30	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
845	14.30	14.20	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
846	14.20	14.10	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
847	14.10	14.00	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
848	14.00	13.90	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
849	13.90	13.80	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
850	13.80	13.70	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
851	13.70	13.60	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
852	13.60	13.50	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
853	13.50	13.40	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
854	13.40	13.30	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
855	13.30	13.20	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
856	13.20	13.10	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
857	13.10	13.00	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
858	13.00	12.90	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
859	12.90	12.80	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
860	12.80	12.70	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
861	12.70	12.60	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
862	12.60	12.50	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
863	12.50	12.40	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
864	12.40	12.30	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
865	12.30	12.20	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
866	12.20	12.10	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
867	12.10	12.00	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
868	12.00	11.90	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
869	11.90	11.80	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
870	11.80	11.70	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
871	11.70	11.60	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
872	11.60	11.50	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
873	11.50	11.40	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044

874	11.40	11.30	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
875	11.30	11.20	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
876	11.20	11.10	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
877	11.10	11.00	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
878	11.00	10.90	11.3474	0.044	3.20	80.0	25600.	8000.0	256.0	0.	0.000	0.000	0.044
1047	10.90	10.80	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1048	10.80	10.70	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1049	10.70	10.60	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1050	10.60	10.50	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1051	10.50	10.40	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1052	10.40	10.30	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1053	10.30	10.20	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1054	10.20	10.10	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1055	10.10	10.00	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1056	10.00	9.90	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1057	9.90	9.80	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1058	9.80	9.70	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1059	9.70	9.60	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1060	9.60	9.50	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1061	9.50	9.40	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1062	9.40	9.30	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1063	9.30	9.20	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1064	9.20	9.10	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1065	9.10	9.00	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1066	9.00	8.90	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1067	8.90	8.80	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1068	8.80	8.70	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1069	8.70	8.60	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1070	8.60	8.50	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1071	8.50	8.40	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1072	8.40	8.30	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1073	8.30	8.20	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1074	8.20	8.10	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1075	8.10	8.00	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1076	8.00	7.90	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1077	7.90	7.80	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1078	7.80	7.70	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1079	7.70	7.60	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1080	7.60	7.50	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1081	7.50	7.40	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1082	7.40	7.30	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1083	7.30	7.20	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1084	7.20	7.10	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1085	7.10	7.00	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1086	7.00	6.90	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1087	6.90	6.80	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1088	6.80	6.70	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1089	6.70	6.60	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1090	6.60	6.50	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1091	6.50	6.40	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104

1092	6.40	6.30	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1093	6.30	6.20	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1094	6.20	6.10	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1095	6.10	6.00	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1096	6.00	5.90	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1097	5.90	5.80	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1098	5.80	5.70	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1099	5.70	5.60	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1100	5.60	5.50	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1101	5.50	5.40	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1102	5.40	5.30	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1103	5.30	5.20	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1104	5.20	5.10	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1105	5.10	5.00	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1106	5.00	4.90	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1107	4.90	4.80	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1108	4.80	4.70	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1109	4.70	4.60	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1110	4.60	4.50	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1111	4.50	4.40	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1112	4.40	4.30	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1113	4.30	4.20	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1114	4.20	4.10	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1115	4.10	4.00	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1116	4.00	3.90	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1117	3.90	3.80	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1118	3.80	3.70	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1119	3.70	3.60	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1120	3.60	3.50	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1121	3.50	3.40	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1122	3.40	3.30	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1123	3.30	3.20	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1124	3.20	3.10	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1125	3.10	3.00	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1126	3.00	2.90	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1127	2.90	2.80	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1128	2.80	2.70	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1129	2.70	2.60	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1130	2.60	2.50	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1131	2.50	2.40	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1132	2.40	2.30	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1133	2.30	2.20	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1134	2.20	2.10	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1135	2.10	2.00	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1136	2.00	1.90	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1137	1.90	1.80	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1138	1.80	1.70	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1139	1.70	1.60	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1140	1.60	1.50	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1141	1.50	1.40	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104

1142	1.40	1.30	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1143	1.30	1.20	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1144	1.20	1.10	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1145	1.10	1.00	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1146	1.00	0.90	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1147	0.90	0.80	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1148	0.80	0.70	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1149	0.70	0.60	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1150	0.60	0.50	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1151	0.50	0.40	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1152	0.40	0.30	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1153	0.30	0.20	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1154	0.20	0.10	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104
1155	0.10	0.00	18.2257	0.104	2.50	70.0	17500.	7000.0	175.0	0.	0.000	0.000	0.104

SPECIAL REPORT: Bayou Poydras #1
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m≥/s	ADVCTV VELO m/s	DEPTH m	WIDTH m	VOLUME AREA m≥	SURFACE AREA m≤	PRISM m≤	X-SECT VELO m≥/s	TIDAL VELO m≤/s	TIDAL VELO m/s	DISPRSN	MEAN
126	10.30	10.20	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
127	10.20	10.10	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
128	10.10	10.00	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
129	10.00	9.90	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
130	9.90	9.80	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
131	9.80	9.70	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
132	9.70	9.60	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
133	9.60	9.50	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
134	9.50	9.40	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
135	9.40	9.30	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
136	9.30	9.20	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
137	9.20	9.10	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
138	9.10	9.00	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
139	9.00	8.90	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
140	8.90	8.80	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
141	8.80	8.70	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
142	8.70	8.60	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
143	8.60	8.50	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
144	8.50	8.40	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
145	8.40	8.30	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
146	8.30	8.20	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
147	8.20	8.10	0.0660	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
148	8.10	8.00	0.0661	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
149	8.00	7.90	0.0661	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
150	7.90	7.80	0.0661	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
151	7.80	7.70	0.0661	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
152	7.70	7.60	0.0661	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
153	7.60	7.50	0.0661	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	
154	7.50	7.40	0.0661	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055	

155	7.40	7.30	0.0661	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
156	7.30	7.20	0.0661	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
157	7.20	7.10	0.0661	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
158	7.10	7.00	0.0664	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
159	7.00	6.90	0.0664	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
160	6.90	6.80	0.0664	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
161	6.80	6.70	0.0664	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
162	6.70	6.60	0.0664	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
163	6.60	6.50	0.0664	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
164	6.50	6.40	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
165	6.40	6.30	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
166	6.30	6.20	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
167	6.20	6.10	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
168	6.10	6.00	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
169	6.00	5.90	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
170	5.90	5.80	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
171	5.80	5.70	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
172	5.70	5.60	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
173	5.60	5.50	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
174	5.50	5.40	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
175	5.40	5.30	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
176	5.30	5.20	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
177	5.20	5.10	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
178	5.10	5.00	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
179	5.00	4.90	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
180	4.90	4.80	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
181	4.80	4.70	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
182	4.70	4.60	0.0665	0.055	0.30	4.0	120.	400.0	1.2	0.	0.000	0.000	0.055
183	4.60	4.50	0.0706	0.015	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.015
184	4.50	4.40	0.0747	0.016	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.016
185	4.40	4.30	0.0788	0.016	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.016
186	4.30	4.20	0.0846	0.018	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.018
187	4.20	4.10	0.0893	0.019	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.019
188	4.10	4.00	0.0934	0.019	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.019
189	4.00	3.90	0.0975	0.020	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.020
190	3.90	3.80	0.1016	0.021	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.021
191	3.80	3.70	0.1057	0.022	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.022
192	3.70	3.60	0.1098	0.023	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.023
193	3.60	3.50	0.1139	0.024	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.024
194	3.50	3.40	0.1180	0.025	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.025
195	3.40	3.30	0.1221	0.025	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.025
196	3.30	3.20	0.1262	0.026	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.026
197	3.20	3.10	0.1303	0.027	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.027
198	3.10	3.00	0.1344	0.028	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.028
199	3.00	2.90	0.1385	0.029	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.029
200	2.90	2.80	0.1426	0.030	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.030
201	2.80	2.70	0.1467	0.031	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.031
202	2.70	2.60	0.1508	0.031	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.031
203	2.60	2.50	0.1550	0.032	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.032
204	2.50	2.40	0.1591	0.033	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.033

205	2.40	2.30	0.1632	0.034	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.034
206	2.30	2.20	0.1673	0.035	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.035
207	2.20	2.10	0.1714	0.036	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.036
208	2.10	2.00	0.1755	0.037	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.037
209	2.00	1.90	0.1796	0.037	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.037
210	1.90	1.80	0.1837	0.038	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.038
211	1.80	1.70	0.1878	0.039	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.039
212	1.70	1.60	0.1919	0.040	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.040
213	1.60	1.50	0.1960	0.041	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.041
214	1.50	1.40	0.2001	0.042	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.042
215	1.40	1.30	0.2042	0.043	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.043
216	1.30	1.20	0.2083	0.043	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.043
217	1.20	1.10	0.2124	0.044	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.044
218	1.10	1.00	0.2165	0.045	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.045
219	1.00	0.90	0.2206	0.046	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.046
220	0.90	0.80	0.2247	0.047	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.047
221	0.80	0.70	0.2288	0.048	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.048
222	0.70	0.60	0.2329	0.049	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.049
223	0.60	0.50	0.2370	0.049	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.049
224	0.50	0.40	0.2411	0.050	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.050
225	0.40	0.30	0.2452	0.051	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.051
226	0.30	0.20	0.2494	0.052	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.052
227	0.20	0.10	0.2535	0.053	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.053
228	0.10	0.00	0.2576	0.054	0.60	8.0	480.	800.0	4.8	0.	0.000	0.000	0.054

SPECIAL REPORT: Chamberlin Canal #1
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m≥/s	ADVCTV m/s	DEPTH m	WIDTH m	VOLUME m≥	SURFACE AREA m≤	X-SECT AREA m≤	TIDAL PRISM m≥	TIDAL VELO m/s	DISPRSN m≤/s	MEAN VELO m/s
272	7.50	7.40	0.0005	0.003	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.003
273	7.40	7.30	0.0006	0.003	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.003
274	7.30	7.20	0.0006	0.003	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.003
275	7.20	7.10	0.0007	0.003	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.003
276	7.10	7.00	0.0007	0.004	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.004
277	7.00	6.90	0.0008	0.004	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.004
278	6.90	6.80	0.0008	0.004	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.004
279	6.80	6.70	0.0009	0.004	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.004
280	6.70	6.60	0.0009	0.005	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.005
281	6.60	6.50	0.0010	0.005	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.005
282	6.50	6.40	0.0010	0.005	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.005
283	6.40	6.30	0.0010	0.005	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.005
284	6.30	6.20	0.0011	0.005	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.005
285	6.20	6.10	0.0011	0.006	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.006
286	6.10	6.00	0.0012	0.006	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.006
287	6.00	5.90	0.0012	0.006	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.006
288	5.90	5.80	0.0013	0.006	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.006
289	5.80	5.70	0.0013	0.007	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.007
290	5.70	5.60	0.0014	0.007	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.007

291	5.60	5.50	0.0014	0.007	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.007
292	5.50	5.40	0.0015	0.007	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.007
293	5.40	5.30	0.0015	0.008	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.008
294	5.30	5.20	0.0015	0.008	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.008
295	5.20	5.10	0.0016	0.008	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.008
296	5.10	5.00	0.0016	0.008	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.008
297	5.00	4.90	0.0017	0.008	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.008
298	4.90	4.80	0.0017	0.009	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.009
299	4.80	4.70	0.0018	0.009	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.009
300	4.70	4.60	0.0018	0.009	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.009
301	4.60	4.50	0.0019	0.009	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.009
302	4.50	4.40	0.0019	0.010	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.010
303	4.40	4.30	0.0020	0.010	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.010
304	4.30	4.20	0.0020	0.010	0.10	2.0	20.	200.0	0.2	0.	0.000	0.000	0.010
305	4.20	4.10	0.0043	0.003	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.003
306	4.10	4.00	0.0044	0.003	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.003
307	4.00	3.90	0.0045	0.003	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.003
308	3.90	3.80	0.0046	0.003	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.003
309	3.80	3.70	0.0047	0.003	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.003
310	3.70	3.60	0.0049	0.003	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.003
311	3.60	3.50	0.0050	0.003	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.003
312	3.50	3.40	0.0051	0.003	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.003
313	3.40	3.30	0.0052	0.003	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.003
314	3.30	3.20	0.0053	0.004	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.004
315	3.20	3.10	0.0055	0.004	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.004
316	3.10	3.00	0.0056	0.004	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.004
317	3.00	2.90	0.0057	0.004	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.004
318	2.90	2.80	0.0058	0.004	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.004
319	2.80	2.70	0.0059	0.004	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.004
320	2.70	2.60	0.0061	0.004	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.004
321	2.60	2.50	0.0062	0.004	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.004
322	2.50	2.40	0.0063	0.004	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.004
323	2.40	2.30	0.0064	0.004	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.004
324	2.30	2.20	0.0065	0.004	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.004
325	2.20	2.10	0.0067	0.004	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.004
326	2.10	2.00	0.0068	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
327	2.00	1.90	0.0069	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
328	1.90	1.80	0.0070	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
329	1.80	1.70	0.0071	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
330	1.70	1.60	0.0072	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
331	1.60	1.50	0.0074	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
332	1.50	1.40	0.0075	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
333	1.40	1.30	0.0076	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
334	1.30	1.20	0.0077	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
335	1.20	1.10	0.0078	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
336	1.10	1.00	0.0080	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
337	1.00	0.90	0.0081	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
338	0.90	0.80	0.0082	0.005	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.005
339	0.80	0.70	0.0083	0.006	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.006
340	0.70	0.60	0.0084	0.006	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.006

341	0.60	0.50	0.0086	0.006	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.006
342	0.50	0.40	0.0087	0.006	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.006
343	0.40	0.30	0.0088	0.006	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.006
344	0.30	0.20	0.0089	0.006	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.006
345	0.20	0.10	0.0090	0.006	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.006
346	0.10	0.00	0.0091	0.006	0.30	5.0	150.	500.0	1.5	0.	0.000	0.000	0.006

SPECIAL REPORT: Intracoastal Waterwa
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m≥/s	ADVCTV m/s	DEPTH m	WIDTH m	VOLUME AREA m≤	SURFACE AREA m≤	X-SECT PRISM m≥	TIDAL VELO m/s	TIDAL VELO m≤/s	DISPRSN m/s	MEAN
420	13.40	13.30	7.5300	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
421	13.30	13.20	7.5300	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
422	13.20	13.10	7.5300	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
423	13.10	13.00	7.5300	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
424	13.00	12.90	7.5300	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
425	12.90	12.80	7.5300	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
426	12.80	12.70	7.5300	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
427	12.70	12.60	7.5300	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
428	12.60	12.50	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
429	12.50	12.40	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
430	12.40	12.30	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
431	12.30	12.20	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
432	12.20	12.10	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
433	12.10	12.00	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
434	12.00	11.90	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
435	11.90	11.80	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
436	11.80	11.70	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
437	11.70	11.60	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
438	11.60	11.50	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
439	11.50	11.40	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
440	11.40	11.30	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
441	11.30	11.20	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
442	11.20	11.10	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
443	11.10	11.00	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
444	11.00	10.90	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
445	10.90	10.80	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
446	10.80	10.70	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
447	10.70	10.60	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
448	10.60	10.50	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
449	10.50	10.40	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
450	10.40	10.30	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
451	10.30	10.20	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
452	10.20	10.10	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
453	10.10	10.00	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
454	10.00	9.90	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
455	9.90	9.80	7.5311	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
456	9.80	9.70	7.5314	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033

457	9.70	9.60	7.5314	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
458	9.60	9.50	7.5314	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
459	9.50	9.40	7.5314	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
460	9.40	9.30	7.5314	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
461	9.30	9.20	7.5314	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
462	9.20	9.10	7.5314	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
463	9.10	9.00	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
464	9.00	8.90	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
465	8.90	8.80	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
466	8.80	8.70	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
467	8.70	8.60	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
468	8.60	8.50	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
469	8.50	8.40	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
470	8.40	8.30	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
471	8.30	8.20	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
472	8.20	8.10	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
473	8.10	8.00	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
474	8.00	7.90	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
475	7.90	7.80	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
476	7.80	7.70	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
477	7.70	7.60	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
478	7.60	7.50	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
479	7.50	7.40	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
480	7.40	7.30	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
481	7.30	7.20	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
482	7.20	7.10	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
483	7.10	7.00	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
484	7.00	6.90	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
485	6.90	6.80	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
486	6.80	6.70	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
487	6.70	6.60	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
488	6.60	6.50	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
489	6.50	6.40	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
490	6.40	6.30	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
491	6.30	6.20	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
492	6.20	6.10	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
493	6.10	6.00	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
494	6.00	5.90	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
495	5.90	5.80	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
496	5.80	5.70	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
497	5.70	5.60	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
498	5.60	5.50	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
499	5.50	5.40	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
500	5.40	5.30	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
501	5.30	5.20	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
502	5.20	5.10	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
503	5.10	5.00	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
504	5.00	4.90	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
505	4.90	4.80	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
506	4.80	4.70	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033

507	4.70	4.60	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
508	4.60	4.50	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
509	4.50	4.40	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
510	4.40	4.30	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
511	4.30	4.20	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
512	4.20	4.10	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
513	4.10	4.00	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
514	4.00	3.90	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
515	3.90	3.80	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
516	3.80	3.70	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
517	3.70	3.60	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
518	3.60	3.50	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
519	3.50	3.40	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
520	3.40	3.30	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
521	3.30	3.20	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
522	3.20	3.10	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
523	3.10	3.00	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
524	3.00	2.90	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
525	2.90	2.80	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
526	2.80	2.70	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
527	2.70	2.60	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
528	2.60	2.50	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
529	2.50	2.40	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
530	2.40	2.30	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
531	2.30	2.20	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
532	2.20	2.10	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
533	2.10	2.00	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
534	2.00	1.90	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
535	1.90	1.80	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
536	1.80	1.70	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
537	1.70	1.60	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
538	1.60	1.50	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
539	1.50	1.40	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
540	1.40	1.30	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
541	1.30	1.20	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
542	1.20	1.10	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
543	1.10	1.00	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
544	1.00	0.90	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
545	0.90	0.80	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
546	0.80	0.70	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
547	0.70	0.60	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
548	0.60	0.50	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
549	0.50	0.40	7.5445	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
550	0.40	0.30	7.5639	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
551	0.30	0.20	7.5639	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
552	0.20	0.10	7.5639	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033
553	0.10	0.00	7.5639	0.033	3.00	76.0	22800.	7600.0	228.0	0.	0.000	0.000	0.033

SPECIAL REPORT: Bayou Plaquemine
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m≥/s	ADVCTV VELO m/s	DEPTH m	WIDTH m	VOLUME m≥	SURFACE AREA m≤	X-SECT AREA m≤	PRISM m≥	TIDAL VELO m/s	TIDAL VELO m≤/s	DISPRSN	MEAN VELO m/s
710	11.90	11.80	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
711	11.80	11.70	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
712	11.70	11.60	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
713	11.60	11.50	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
714	11.50	11.40	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
715	11.40	11.30	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
716	11.30	11.20	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
717	11.20	11.10	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
718	11.10	11.00	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
719	11.00	10.90	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
720	10.90	10.80	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
721	10.80	10.70	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
722	10.70	10.60	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
723	10.60	10.50	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
724	10.50	10.40	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
725	10.40	10.30	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
726	10.30	10.20	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
727	10.20	10.10	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
728	10.10	10.00	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
729	10.00	9.90	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
730	9.90	9.80	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
731	9.80	9.70	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
732	9.70	9.60	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
733	9.60	9.50	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
734	9.50	9.40	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
735	9.40	9.30	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
736	9.30	9.20	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
737	9.20	9.10	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
738	9.10	9.00	0.7700	0.023	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.023	
739	9.00	8.90	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
740	8.90	8.80	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
741	8.80	8.70	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
742	8.70	8.60	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
743	8.60	8.50	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
744	8.50	8.40	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
745	8.40	8.30	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
746	8.30	8.20	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
747	8.20	8.10	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
748	8.10	8.00	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
749	8.00	7.90	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
750	7.90	7.80	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
751	7.80	7.70	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
752	7.70	7.60	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
753	7.60	7.50	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
754	7.50	7.40	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	
755	7.40	7.30	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025	

756	7.30	7.20	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
757	7.20	7.10	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
758	7.10	7.00	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
759	7.00	6.90	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
760	6.90	6.80	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
761	6.80	6.70	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
762	6.70	6.60	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
763	6.60	6.50	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
764	6.50	6.40	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
765	6.40	6.30	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
766	6.30	6.20	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
767	6.20	6.10	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
768	6.10	6.00	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
769	6.00	5.90	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
770	5.90	5.80	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
771	5.80	5.70	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
772	5.70	5.60	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
773	5.60	5.50	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
774	5.50	5.40	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
775	5.40	5.30	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
776	5.30	5.20	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
777	5.20	5.10	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
778	5.10	5.00	0.8357	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
779	5.00	4.90	0.8386	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
780	4.90	4.80	0.8386	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
781	4.80	4.70	0.8386	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
782	4.70	4.60	0.8396	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
783	4.60	4.50	0.8396	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
784	4.50	4.40	0.8396	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
785	4.40	4.30	0.8398	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
786	4.30	4.20	0.8398	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
787	4.20	4.10	0.8398	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
788	4.10	4.00	0.8398	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
789	4.00	3.90	0.8398	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
790	3.90	3.80	0.8398	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
791	3.80	3.70	0.8398	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
792	3.70	3.60	0.8398	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
793	3.60	3.50	0.8398	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
794	3.50	3.40	0.8398	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
795	3.40	3.30	0.8398	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
796	3.30	3.20	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
797	3.20	3.10	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
798	3.10	3.00	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
799	3.00	2.90	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
800	2.90	2.80	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
801	2.80	2.70	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
802	2.70	2.60	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
803	2.60	2.50	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
804	2.50	2.40	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
805	2.40	2.30	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025

806	2.30	2.20	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
807	2.20	2.10	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
808	2.10	2.00	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
809	2.00	1.90	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
810	1.90	1.80	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
811	1.80	1.70	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
812	1.70	1.60	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
813	1.60	1.50	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
814	1.50	1.40	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
815	1.40	1.30	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
816	1.30	1.20	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
817	1.20	1.10	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
818	1.10	1.00	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
819	1.00	0.90	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
820	0.90	0.80	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
821	0.80	0.70	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
822	0.70	0.60	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
823	0.60	0.50	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
824	0.50	0.40	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
825	0.40	0.30	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
826	0.30	0.20	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
827	0.20	0.10	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025
828	0.10	0.00	0.8399	0.025	1.10	30.0	3300.	3000.0	33.0	0.	0.000	0.000	0.025

SPECIAL REPORT: Upper Grand River #1
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m≥/s	ADVCTV m/s	DEPTH m	WIDTH m	AREA m≥	VOLUME AREA m≤	PRISM m≥	SURFACE VELO m/s	X-SECT VELO m≤/s	TIDAL VELO m/s	TIDAL	DISPRSN	MEAN
879	12.40	12.30	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
880	12.30	12.20	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
881	12.20	12.10	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
882	12.10	12.00	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
883	12.00	11.90	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
884	11.90	11.80	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
885	11.80	11.70	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
886	11.70	11.60	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
887	11.60	11.50	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
888	11.50	11.40	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
889	11.40	11.30	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
890	11.30	11.20	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
891	11.20	11.10	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
892	11.10	11.00	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
893	11.00	10.90	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
894	10.90	10.80	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
895	10.80	10.70	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
896	10.70	10.60	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
897	10.60	10.50	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		
898	10.50	10.40	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041		

899	10.40	10.30	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041
900	10.30	10.20	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041
901	10.20	10.10	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041
902	10.10	10.00	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041
903	10.00	9.90	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041
904	9.90	9.80	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041
905	9.80	9.70	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041
906	9.70	9.60	3.9400	0.041	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.041
907	9.60	9.50	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
908	9.50	9.40	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
909	9.40	9.30	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
910	9.30	9.20	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
911	9.20	9.10	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
912	9.10	9.00	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
913	9.00	8.90	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
914	8.90	8.80	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
915	8.80	8.70	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
916	8.70	8.60	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
917	8.60	8.50	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
918	8.50	8.40	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
919	8.40	8.30	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
920	8.30	8.20	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
921	8.20	8.10	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
922	8.10	8.00	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
923	8.00	7.90	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
924	7.90	7.80	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
925	7.80	7.70	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
926	7.70	7.60	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
927	7.60	7.50	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
928	7.50	7.40	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
929	7.40	7.30	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
930	7.30	7.20	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
931	7.20	7.10	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
932	7.10	7.00	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
933	7.00	6.90	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
934	6.90	6.80	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
935	6.80	6.70	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
936	6.70	6.60	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
937	6.60	6.50	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
938	6.50	6.40	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
939	6.40	6.30	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
940	6.30	6.20	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
941	6.20	6.10	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
942	6.10	6.00	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
943	6.00	5.90	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
944	5.90	5.80	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
945	5.80	5.70	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
946	5.70	5.60	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
947	5.60	5.50	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
948	5.50	5.40	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051

949	5.40	5.30	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
950	5.30	5.20	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
951	5.20	5.10	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
952	5.10	5.00	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
953	5.00	4.90	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
954	4.90	4.80	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
955	4.80	4.70	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
956	4.70	4.60	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
957	4.60	4.50	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
958	4.50	4.40	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
959	4.40	4.30	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
960	4.30	4.20	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
961	4.20	4.10	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
962	4.10	4.00	4.9083	0.051	1.10	88.0	9680.	8800.0	96.8	0.	0.000	0.000	0.051
1007	4.00	3.90	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1008	3.90	3.80	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1009	3.80	3.70	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1010	3.70	3.60	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1011	3.60	3.50	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1012	3.50	3.40	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1013	3.40	3.30	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1014	3.30	3.20	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1015	3.20	3.10	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1016	3.10	3.00	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1017	3.00	2.90	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1018	2.90	2.80	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1019	2.80	2.70	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1020	2.70	2.60	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1021	2.60	2.50	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1022	2.50	2.40	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1023	2.40	2.30	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1024	2.30	2.20	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1025	2.20	2.10	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1026	2.10	2.00	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1027	2.00	1.90	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1028	1.90	1.80	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1029	1.80	1.70	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1030	1.70	1.60	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1031	1.60	1.50	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1032	1.50	1.40	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1033	1.40	1.30	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1034	1.30	1.20	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1035	1.20	1.10	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1036	1.10	1.00	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1037	1.00	0.90	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1038	0.90	0.80	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1039	0.80	0.70	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1040	0.70	0.60	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1041	0.60	0.50	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1042	0.50	0.40	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085

1043	0.40	0.30	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1044	0.30	0.20	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1045	0.20	0.10	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085
1046	0.10	0.00	6.8783	0.085	1.30	62.0	8060.	6200.0	80.6	0.	0.000	0.000	0.085

SPECIAL REPORT: Lower Flat River
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW VELO	ADVCTV	DEPTH	WIDTH	VOLUME AREA	SURFACE AREA	PRISM	X-SECT VELO	TIDAL	TIDAL VELO	DISPRSN	MEAN
	km	km	m≥/s	m/s	m	m	m≥	m≤	m≤	m≥	m/s	m≤/s	m/s	
963	4.40	4.30	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
964	4.30	4.20	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
965	4.20	4.10	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
966	4.10	4.00	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
967	4.00	3.90	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
968	3.90	3.80	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
969	3.80	3.70	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
970	3.70	3.60	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
971	3.60	3.50	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
972	3.50	3.40	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
973	3.40	3.30	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
974	3.30	3.20	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
975	3.20	3.10	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
976	3.10	3.00	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
977	3.00	2.90	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
978	2.90	2.80	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
979	2.80	2.70	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
980	2.70	2.60	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
981	2.60	2.50	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
982	2.50	2.40	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
983	2.40	2.30	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
984	2.30	2.20	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
985	2.20	2.10	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
986	2.10	2.00	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
987	2.00	1.90	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
988	1.90	1.80	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
989	1.80	1.70	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
990	1.70	1.60	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
991	1.60	1.50	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
992	1.50	1.40	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
993	1.40	1.30	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
994	1.30	1.20	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
995	1.20	1.10	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
996	1.10	1.00	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
997	1.00	0.90	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
998	0.90	0.80	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
999	0.80	0.70	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
1000	0.70	0.60	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	
1001	0.60	0.50	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038	

1002	0.50	0.40	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038
1003	0.40	0.30	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038
1004	0.30	0.20	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038
1005	0.20	0.10	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038
1006	0.10	0.00	1.9700	0.038	0.80	64.0	5120.	6400.0	51.2	0.	0.000	0.000	0.038

FINAL REPORT Bayou Cholpe #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 1 Bayou Cholpe #1 Calibration Simulation for Upper Terrebonne model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
1	HDWTR	0.09485	24.60	0.00	0.00	0.00	4.10	4.70	0.00	4.70	0.00	2.40	0.03	1.50	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m≥/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m≥	VOLUME AREA m≤	SURFACE AREA m≤	X-SECT PRISM m≥	TIDAL VELO m/s	TIDAL VELO m≤/s	DISPRSN m/s	MEAN
1	55.60	55.50	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
2	55.50	55.40	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
3	55.40	55.30	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
4	55.30	55.20	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
5	55.20	55.10	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
6	55.10	55.00	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
7	55.00	54.90	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
8	54.90	54.80	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
9	54.80	54.70	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
10	54.70	54.60	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
11	54.60	54.50	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
12	54.50	54.40	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
13	54.40	54.30	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
14	54.30	54.20	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
15	54.20	54.10	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
16	54.10	54.00	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
17	54.00	53.90	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
18	53.90	53.80	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
19	53.80	53.70	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
20	53.70	53.60	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
21	53.60	53.50	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
22	53.50	53.40	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
23	53.40	53.30	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
24	53.30	53.20	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
25	53.20	53.10	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
26	53.10	53.00	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
27	53.00	52.90	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
28	52.90	52.80	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
29	52.80	52.70	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379
30	52.70	52.60	0.09485	0.0	0.37940	0.00	0.25	1.00	25.00	100.00	0.25	0.00	0.000	0.000	0.379

TOT					0.09						750.00	3000.00													
AVG				0.3794		0.25	1.00						0.25												
CUM					0.09																				

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	NH3 SRCE *	NH3 RATE 1/da	DENIT SRCE **	PO4 PROD **	ALG PROD **	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
1	55.500	8.30	10.95	0.16	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	55.400	8.28	10.98	0.16	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	55.300	8.26	11.01	0.16	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	55.200	8.23	11.04	0.16	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.02	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	55.100	8.21	11.07	0.17	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.02	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	55.000	8.19	11.10	0.17	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.02	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	54.900	8.17	11.13	0.17	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.02	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	54.800	8.15	11.16	0.17	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	54.700	8.13	11.19	0.17	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	54.600	8.10	11.22	0.17	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.02	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	54.500	8.08	11.25	0.17	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.02	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	54.400	8.06	11.28	0.17	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.02	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	54.300	8.04	11.31	0.18	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.02	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	54.200	8.02	11.34	0.18	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	54.100	8.00	11.37	0.18	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	54.000	7.98	11.40	0.18	0.00	0.00	0.00	0.00	0.00	1.08	1.08	1.08	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	53.900	7.95	11.43	0.18	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	53.800	7.93	11.46	0.18	0.00	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	53.700	7.91	11.49	0.18	0.00	0.00	0.00	0.00	0.00	1.11	1.11	1.11	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	53.600	7.89	11.52	0.18	0.00	0.00	0.00	0.00	0.00	1.12	1.12	1.12	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	53.500	7.87	11.55	0.18	0.00	0.00	0.00	0.00	0.00	1.14	1.14	1.14	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	53.400	7.85	11.58	0.19	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	53.300	7.83	11.61	0.19	0.00	0.00	0.00	0.00	0.00	1.16	1.16	1.16	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	53.200	7.81	11.64	0.19	0.00	0.00	0.00	0.00	0.00	1.17	1.17	1.17	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	53.100	7.79	11.67	0.19	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	53.000	7.77	11.70	0.19	0.00	0.00	0.00	0.00	0.00	1.19	1.19	1.19	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	52.900	7.75	11.73	0.19	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	52.800	7.73	11.76	0.19	0.00	0.00	0.00	0.00	0.00	1.21	1.21	1.21	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	52.700	7.71	11.79	0.20	0.00	0.00	0.00	0.00	0.00	1.22	1.22	1.22	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	52.600	7.69	11.82	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			10.00	0.13	0.00	0.00	0.00	0.00	0.00	0.70			0.02	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO	COLI #/100mL	NCM
1	55.500	24.75	0.00	0.00	0.00	4.22	4.70	0.00	4.70	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
2	55.400	24.89	0.00	0.00	0.00	4.34	4.70	0.00	4.70	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00

3	55.300	25.04	0.00	0.00	0.00	4.45	4.69	0.00	4.69	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
4	55.200	25.19	0.00	0.00	0.00	4.56	4.69	0.00	4.69	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
5	55.100	25.33	0.00	0.00	0.00	4.67	4.69	0.00	4.69	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
6	55.000	25.48	0.00	0.00	0.00	4.77	4.69	0.00	4.69	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
7	54.900	25.63	0.00	0.00	0.00	4.87	4.68	0.00	4.68	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
8	54.800	25.77	0.00	0.00	0.00	4.96	4.68	0.00	4.68	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
9	54.700	25.92	0.00	0.00	0.00	5.05	4.68	0.00	4.68	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
10	54.600	26.07	0.00	0.00	0.00	5.14	4.68	0.00	4.68	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
11	54.500	26.21	0.00	0.00	0.00	5.22	4.67	0.00	4.67	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
12	54.400	26.36	0.00	0.00	0.00	5.30	4.67	0.00	4.67	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
13	54.300	26.51	0.00	0.00	0.00	5.38	4.67	0.00	4.67	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
14	54.200	26.65	0.00	0.00	0.00	5.45	4.67	0.00	4.67	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
15	54.100	26.80	0.00	0.00	0.00	5.52	4.66	0.00	4.66	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
16	54.000	26.95	0.00	0.00	0.00	5.59	4.66	0.00	4.66	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
17	53.900	27.09	0.00	0.00	0.00	5.65	4.66	0.00	4.66	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
18	53.800	27.24	0.00	0.00	0.00	5.71	4.66	0.00	4.66	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
19	53.700	27.39	0.00	0.00	0.00	5.77	4.65	0.00	4.65	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
20	53.600	27.53	0.00	0.00	0.00	5.83	4.65	0.00	4.65	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
21	53.500	27.68	0.00	0.00	0.00	5.88	4.65	0.00	4.65	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
22	53.400	27.83	0.00	0.00	0.00	5.93	4.65	0.00	4.65	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
23	53.300	27.97	0.00	0.00	0.00	5.98	4.64	0.00	4.64	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
24	53.200	28.12	0.00	0.00	0.00	6.03	4.64	0.00	4.64	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
25	53.100	28.27	0.00	0.00	0.00	6.07	4.64	0.00	4.64	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
26	53.000	28.41	0.00	0.00	0.00	6.11	4.63	0.00	4.63	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
27	52.900	28.56	0.00	0.00	0.00	6.15	4.63	0.00	4.63	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
28	52.800	28.71	0.00	0.00	0.00	6.19	4.63	0.00	4.63	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
29	52.700	28.85	0.00	0.00	0.00	6.23	4.63	0.00	4.63	0.00	2.40	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00
30	52.600	29.00	0.00	0.00	0.00	6.26	4.62	0.00	4.62	0.00	2.39	0.03	1.50	3.93	0.00	0.00	0.00	0.	0.00

FINAL REPORT Bayou Cholpe #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 2 Bayou Cholpe #2 Calibration Simulation for Upper Terrebonne model
********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
31	UPR RCH	0.09485	29.00	0.00	0.00	0.00	6.26	4.62	0.00	4.62	0.00	2.39	0.03	1.50	0.00	0.00	0.00	0.00
EACH	INCR	0.00615	24.56	0.00	0.00	0.00	4.08	9.30	0.00			1.50	0.00	0.00	0.00	0.00	0.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m≥/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m≥	VOLUME AREA m≤	AREA m≤	PRISM m≥	SURFACE VELO m/s	X-SECT VELO m≤/s	TIDAL VELO m/s	TIDAL	DISPRSN	MEAN
31	52.60	52.50	0.10100	0.0	0.01010	0.11	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.010		
32	52.50	52.40	0.10716	0.0	0.01072	0.11	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.011		
33	52.40	52.30	0.11331	0.0	0.01133	0.10	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.011		
34	52.30	52.20	0.11947	0.0	0.01195	0.10	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.012		
35	52.20	52.10	0.12562	0.0	0.01256	0.09	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.013		
36	52.10	52.00	0.13178	0.0	0.01318	0.09	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.013		
37	52.00	51.90	0.13793	0.0	0.01379	0.08	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.014		

38	51.90	51.80	0.14409	0.0	0.01441	0.08	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.014
39	51.80	51.70	0.15024	0.0	0.01502	0.08	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.015
40	51.70	51.60	0.15640	0.0	0.01564	0.07	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.016
41	51.60	51.50	0.16255	0.0	0.01626	0.07	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.016
42	51.50	51.40	0.16871	0.0	0.01687	0.07	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.017
43	51.40	51.30	0.17486	0.0	0.01749	0.07	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.017
44	51.30	51.20	0.18102	0.0	0.01810	0.06	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.018
45	51.20	51.10	0.18717	0.0	0.01872	0.06	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.019
46	51.10	51.00	0.19333	0.0	0.01933	0.06	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.019
47	51.00	50.90	0.19948	0.0	0.01995	0.06	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.020
48	50.90	50.80	0.20564	0.0	0.02056	0.06	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.021
49	50.80	50.70	0.21179	0.0	0.02118	0.05	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.021
50	50.70	50.60	0.21794	0.0	0.02179	0.05	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.022
51	50.60	50.50	0.22410	0.0	0.02241	0.05	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.022
52	50.50	50.40	0.23025	0.0	0.02303	0.05	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.023
53	50.40	50.30	0.23641	0.0	0.02364	0.05	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.024
54	50.30	50.20	0.24256	0.0	0.02426	0.05	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.024
55	50.20	50.10	0.24872	0.0	0.02487	0.05	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.025
56	50.10	50.00	0.25487	0.0	0.02549	0.05	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.025
57	50.00	49.90	0.26103	0.0	0.02610	0.04	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.026
58	49.90	49.80	0.26718	0.0	0.02672	0.04	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.027
59	49.80	49.70	0.27334	0.0	0.02733	0.04	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.027
60	49.70	49.60	0.27949	0.0	0.02795	0.04	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.028
61	49.60	49.50	0.28565	0.0	0.02856	0.04	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.029
62	49.50	49.40	0.29180	0.0	0.02918	0.04	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.029
63	49.40	49.30	0.29796	0.0	0.02980	0.04	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.030
64	49.30	49.20	0.30411	0.0	0.03041	0.04	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.030
65	49.20	49.10	0.31027	0.0	0.03103	0.04	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.031
66	49.10	49.00	0.31642	0.0	0.03164	0.04	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.032
67	49.00	48.90	0.32258	0.0	0.03226	0.04	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.032
68	48.90	48.80	0.32873	0.0	0.03287	0.04	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.033
69	48.80	48.70	0.33488	0.0	0.03349	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.033
70	48.70	48.60	0.34104	0.0	0.03410	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.034
71	48.60	48.50	0.34719	0.0	0.03472	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.035
72	48.50	48.40	0.35335	0.0	0.03533	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.035
73	48.40	48.30	0.35950	0.0	0.03595	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.036
74	48.30	48.20	0.36566	0.0	0.03657	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.037
75	48.20	48.10	0.37181	0.0	0.03718	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.037
76	48.10	48.00	0.37797	0.0	0.03780	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.038
77	48.00	47.90	0.38412	0.0	0.03841	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.038
78	47.90	47.80	0.39028	0.0	0.03903	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.039
79	47.80	47.70	0.39643	0.0	0.03964	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.040
80	47.70	47.60	0.40259	0.0	0.04026	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.040
81	47.60	47.50	0.40874	0.0	0.04087	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.041
82	47.50	47.40	0.41490	0.0	0.04149	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.041
83	47.40	47.30	0.42105	0.0	0.04211	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.042
84	47.30	47.20	0.42721	0.0	0.04272	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.043
85	47.20	47.10	0.43336	0.0	0.04334	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.043
86	47.10	47.00	0.43952	0.0	0.04395	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.044
87	47.00	46.90	0.44567	0.0	0.04457	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.045

88	46.90	46.80	0.45182	0.0	0.04518	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.045
89	46.80	46.70	0.45798	0.0	0.04580	0.03	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.046
90	46.70	46.60	0.46413	0.0	0.04641	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.046
91	46.60	46.50	0.47029	0.0	0.04703	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.047
92	46.50	46.40	0.47644	0.0	0.04764	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.048
93	46.40	46.30	0.48260	0.0	0.04826	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.048
94	46.30	46.20	0.48875	0.0	0.04888	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.049
95	46.20	46.10	0.49491	0.0	0.04949	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.049
96	46.10	46.00	0.50106	0.0	0.05011	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.050
97	46.00	45.90	0.50722	0.0	0.05072	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.051
98	45.90	45.80	0.51337	0.0	0.05134	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.051
99	45.80	45.70	0.51953	0.0	0.05195	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.052
100	45.70	45.60	0.52568	0.0	0.05257	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.053
101	45.60	45.50	0.53184	0.0	0.05318	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.053
102	45.50	45.40	0.53799	0.0	0.05380	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.054
103	45.40	45.30	0.54415	0.0	0.05441	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.054
104	45.30	45.20	0.55030	0.0	0.05503	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.055
105	45.20	45.10	0.55646	0.0	0.05565	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.056
106	45.10	45.00	0.56261	0.0	0.05626	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.056
107	45.00	44.90	0.56876	0.0	0.05688	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.057
108	44.90	44.80	0.57492	0.0	0.05749	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.057
109	44.80	44.70	0.58107	0.0	0.05811	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.058
110	44.70	44.60	0.58723	0.0	0.05872	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.059
111	44.60	44.50	0.59338	0.0	0.05934	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.059
112	44.50	44.40	0.59954	0.0	0.05995	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.060
113	44.40	44.30	0.60569	0.0	0.06057	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.061
114	44.30	44.20	0.61185	0.0	0.06118	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.061
115	44.20	44.10	0.61800	0.0	0.06180	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.062
116	44.10	44.00	0.62416	0.0	0.06242	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.062
117	44.00	43.90	0.63031	0.0	0.06303	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.063
118	43.90	43.80	0.63647	0.0	0.06365	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.064
119	43.80	43.70	0.64262	0.0	0.06426	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.064
120	43.70	43.60	0.64878	0.0	0.06488	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.065
121	43.60	43.50	0.65493	0.0	0.06549	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.065
122	43.50	43.40	0.66109	0.0	0.06611	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.066
123	43.40	43.30	0.66724	0.0	0.06672	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.067
124	43.30	43.20	0.67339	0.0	0.06734	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.067
125	43.20	43.10	0.67955	0.0	0.06795	0.02	1.00	10.00	1000.00	1000.00	10.00	0.00	0.000	0.000	0.068

TOT			3.65		95000.00	95000.00
AVG			0.0301	1.00	10.00	10.00
CUM			3.74			

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	SRCE *	NH3 RATE 1/da	NH3 SRCE *	DENIT PROD **	PO4 PROD **	ALG DECAY 1/da	MAC DECAY 1/da	COLI SETT 1/da	NCM	NCM
31	52.500	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
32	52.400	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

33	52.300	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	52.200	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	52.100	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	52.000	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	51.900	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	51.800	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	51.700	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	51.600	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	51.500	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	51.400	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	51.300	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	51.200	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	51.100	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	51.000	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	50.900	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	50.800	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	50.700	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	50.600	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	50.500	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	50.400	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	50.300	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	50.200	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	50.100	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	50.000	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	49.900	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	49.800	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	49.700	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	49.600	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	49.500	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	49.400	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	49.300	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	49.200	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	49.100	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	49.000	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	48.900	7.69	0.83	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	48.800	7.69	0.84	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	48.700	7.69	0.85	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	48.600	7.69	0.86	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	48.500	7.69	0.87	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72	48.400	7.69	0.87	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	48.300	7.69	0.88	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	48.200	7.69	0.89	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	48.100	7.69	0.90	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	48.000	7.69	0.90	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	47.900	7.69	0.91	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	47.800	7.69	0.92	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	47.700	7.69	0.93	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	47.600	7.69	0.93	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	47.500	7.69	0.94	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82	47.400	7.69	0.95	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

83	47.300	7.69	0.95	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	47.200	7.69	0.96	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	47.100	7.69	0.97	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	47.000	7.69	0.97	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	46.900	7.69	0.98	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	46.800	7.69	0.99	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	46.700	7.69	0.99	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	46.600	7.69	1.00	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	46.500	7.69	1.01	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	46.400	7.69	1.01	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	46.300	7.69	1.02	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	46.200	7.69	1.03	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	46.100	7.69	1.03	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	46.000	7.69	1.04	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	45.900	7.69	1.05	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	45.800	7.69	1.05	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	45.700	7.69	1.06	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	45.600	7.69	1.07	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	45.500	7.69	1.07	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	45.400	7.69	1.08	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	45.300	7.69	1.08	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	45.200	7.69	1.09	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	45.100	7.69	1.10	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	45.000	7.69	1.10	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	44.900	7.69	1.11	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	44.800	7.69	1.11	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	44.700	7.69	1.12	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	44.600	7.69	1.13	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	44.500	7.69	1.13	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	44.400	7.69	1.14	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	44.300	7.69	1.14	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	44.200	7.69	1.15	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	44.100	7.69	1.16	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	44.000	7.69	1.16	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	43.900	7.69	1.17	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	43.800	7.69	1.17	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	43.700	7.69	1.18	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	43.600	7.69	1.18	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	43.500	7.69	1.19	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	43.400	7.69	1.20	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	43.300	7.69	1.20	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	43.200	7.69	1.21	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	43.100	7.69	1.21	0.20	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.81 0.13 0.00 0.00 0.00 0.00 0.00 0.70 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m≤/d ** mg/L/day

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

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

NO.	DIST	DEG C	PPT			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m≥	#/100mL
31	52.500	29.00	0.00	0.00	0.00	6.03	4.80	0.00	4.80	0.00	2.33	0.04	1.41	3.78	0.00	0.00	0.00	0.	0.00
32	52.400	29.00	0.00	0.00	0.00	5.84	4.95	0.00	4.95	0.00	2.28	0.04	1.33	3.65	0.00	0.00	0.00	0.	0.00
33	52.300	29.00	0.00	0.00	0.00	5.68	5.09	0.00	5.09	0.00	2.23	0.04	1.26	3.53	0.00	0.00	0.00	0.	0.00
34	52.200	29.00	0.00	0.00	0.00	5.54	5.21	0.00	5.21	0.00	2.19	0.04	1.20	3.43	0.00	0.00	0.00	0.	0.00
35	52.100	29.00	0.00	0.00	0.00	5.43	5.31	0.00	5.31	0.00	2.15	0.04	1.14	3.33	0.00	0.00	0.00	0.	0.00
36	52.000	29.00	0.00	0.00	0.00	5.33	5.40	0.00	5.40	0.00	2.12	0.04	1.09	3.25	0.00	0.00	0.00	0.	0.00
37	51.900	29.00	0.00	0.00	0.00	5.24	5.49	0.00	5.49	0.00	2.08	0.04	1.04	3.17	0.00	0.00	0.00	0.	0.00
38	51.800	29.00	0.00	0.00	0.00	5.17	5.56	0.00	5.56	0.00	2.06	0.05	1.00	3.10	0.00	0.00	0.00	0.	0.00
39	51.700	29.00	0.00	0.00	0.00	5.10	5.63	0.00	5.63	0.00	2.03	0.05	0.96	3.03	0.00	0.00	0.00	0.	0.00
40	51.600	29.00	0.00	0.00	0.00	5.04	5.69	0.00	5.69	0.00	2.00	0.05	0.92	2.97	0.00	0.00	0.00	0.	0.00
41	51.500	29.00	0.00	0.00	0.00	4.99	5.75	0.00	5.75	0.00	1.98	0.05	0.89	2.92	0.00	0.00	0.00	0.	0.00
42	51.400	29.00	0.00	0.00	0.00	4.95	5.80	0.00	5.80	0.00	1.96	0.05	0.86	2.87	0.00	0.00	0.00	0.	0.00
43	51.300	29.00	0.00	0.00	0.00	4.91	5.85	0.00	5.85	0.00	1.94	0.05	0.83	2.82	0.00	0.00	0.00	0.	0.00
44	51.200	29.00	0.00	0.00	0.00	4.87	5.89	0.00	5.89	0.00	1.92	0.05	0.80	2.77	0.00	0.00	0.00	0.	0.00
45	51.100	29.00	0.00	0.00	0.00	4.84	5.93	0.00	5.93	0.00	1.91	0.05	0.78	2.73	0.00	0.00	0.00	0.	0.00
46	51.000	29.00	0.00	0.00	0.00	4.81	5.97	0.00	5.97	0.00	1.89	0.05	0.75	2.69	0.00	0.00	0.00	0.	0.00
47	50.900	29.00	0.00	0.00	0.00	4.78	6.00	0.00	6.00	0.00	1.88	0.05	0.73	2.66	0.00	0.00	0.00	0.	0.00
48	50.800	29.00	0.00	0.00	0.00	4.75	6.03	0.00	6.03	0.00	1.86	0.05	0.71	2.62	0.00	0.00	0.00	0.	0.00
49	50.700	29.00	0.00	0.00	0.00	4.73	6.06	0.00	6.06	0.00	1.85	0.05	0.69	2.59	0.00	0.00	0.00	0.	0.00
50	50.600	29.00	0.00	0.00	0.00	4.71	6.09	0.00	6.09	0.00	1.84	0.05	0.67	2.56	0.00	0.00	0.00	0.	0.00
51	50.500	29.00	0.00	0.00	0.00	4.69	6.12	0.00	6.12	0.00	1.83	0.05	0.65	2.53	0.00	0.00	0.00	0.	0.00
52	50.400	29.00	0.00	0.00	0.00	4.67	6.14	0.00	6.14	0.00	1.82	0.05	0.64	2.50	0.00	0.00	0.00	0.	0.00
53	50.300	29.00	0.00	0.00	0.00	4.66	6.16	0.00	6.16	0.00	1.81	0.05	0.62	2.47	0.00	0.00	0.00	0.	0.00
54	50.200	29.00	0.00	0.00	0.00	4.64	6.19	0.00	6.19	0.00	1.80	0.05	0.61	2.45	0.00	0.00	0.00	0.	0.00
55	50.100	29.00	0.00	0.00	0.00	4.63	6.21	0.00	6.21	0.00	1.79	0.05	0.59	2.43	0.00	0.00	0.00	0.	0.00
56	50.000	29.00	0.00	0.00	0.00	4.62	6.23	0.00	6.23	0.00	1.78	0.05	0.58	2.40	0.00	0.00	0.00	0.	0.00
57	49.900	29.00	0.00	0.00	0.00	4.61	6.24	0.00	6.24	0.00	1.77	0.05	0.57	2.38	0.00	0.00	0.00	0.	0.00
58	49.800	29.00	0.00	0.00	0.00	4.59	6.26	0.00	6.26	0.00	1.76	0.05	0.55	2.36	0.00	0.00	0.00	0.	0.00
59	49.700	29.00	0.00	0.00	0.00	4.58	6.28	0.00	6.28	0.00	1.75	0.05	0.54	2.34	0.00	0.00	0.00	0.	0.00
60	49.600	29.00	0.00	0.00	0.00	4.57	6.29	0.00	6.29	0.00	1.75	0.05	0.53	2.32	0.00	0.00	0.00	0.	0.00
61	49.500	29.00	0.00	0.00	0.00	4.56	6.31	0.00	6.31	0.00	1.74	0.05	0.52	2.31	0.00	0.00	0.00	0.	0.00
62	49.400	29.00	0.00	0.00	0.00	4.56	6.32	0.00	6.32	0.00	1.73	0.05	0.51	2.29	0.00	0.00	0.00	0.	0.00
63	49.300	29.00	0.00	0.00	0.00	4.55	6.33	0.00	6.33	0.00	1.73	0.05	0.50	2.27	0.00	0.00	0.00	0.	0.00
64	49.200	29.00	0.00	0.00	0.00	4.54	6.35	0.00	6.35	0.00	1.72	0.05	0.49	2.26	0.00	0.00	0.00	0.	0.00
65	49.100	29.00	0.00	0.00	0.00	4.53	6.36	0.00	6.36	0.00	1.71	0.05	0.48	2.24	0.00	0.00	0.00	0.	0.00
66	49.000	29.00	0.00	0.00	0.00	4.53	6.37	0.00	6.37	0.00	1.71	0.05	0.47	2.23	0.00	0.00	0.00	0.	0.00
67	48.900	29.00	0.00	0.00	0.00	4.52	6.38	0.00	6.38	0.00	1.70	0.05	0.46	2.21	0.00	0.00	0.00	0.	0.00
68	48.800	29.00	0.00	0.00	0.00	4.52	6.39	0.00	6.39	0.00	1.70	0.05	0.46	2.20	0.00	0.00	0.00	0.	0.00
69	48.700	29.00	0.00	0.00	0.00	4.51	6.40	0.00	6.40	0.00	1.69	0.05	0.45	2.19	0.00	0.00	0.00	0.	0.00
70	48.600	29.00	0.00	0.00	0.00	4.51	6.41	0.00	6.41	0.00	1.69	0.05	0.44	2.18	0.00	0.00	0.00	0.	0.00
71	48.500	29.00	0.00	0.00	0.00	4.51	6.42	0.00	6.42	0.00	1.68	0.05	0.43	2.16	0.00	0.00	0.00	0.	0.00
72	48.400	29.00	0.00	0.00	0.00	4.51	6.43	0.00	6.43	0.00	1.68	0.05	0.43	2.15	0.00	0.00	0.00	0.	0.00
73	48.300	29.00	0.00	0.00	0.00	4.51	6.44	0.00	6.44	0.00	1.67	0.05	0.42	2.14	0.00	0.00	0.00	0.	0.00
74	48.200	29.00	0.00	0.00	0.00	4.51	6.44	0.00	6.44	0.00	1.67	0.05	0.41	2.13	0.00	0.00	0.00	0.	0.00
75	48.100	29.00	0.00	0.00	0.00	4.51	6.45	0.00	6.45	0.00	1.67	0.05	0.41	2.12	0.00	0.00	0.00	0.	0.00
76	48.000	29.00	0.00	0.00	0.00	4.51	6.46	0.00	6.46	0.00	1.66	0.05	0.40	2.11	0.00	0.00	0.00	0.	0.00
77	47.900	29.00	0.00	0.00	0.00	4.52	6.47	0.00	6.47	0.00	1.66	0.05	0.40	2.10	0.00	0.00	0.00	0.	0.00
78	47.800	29.00	0.00	0.00	0.00	4.52	6.47	0.00	6.47	0.00	1.65	0.05	0.39	2.09	0.00	0.00	0.00	0.	0.00

79	47.700	29.00	0.00	0.00	0.00	4.52	6.48	0.00	6.48	0.00	1.65	0.05	0.38	2.08	0.00	0.00	0.00	0.	0.00
80	47.600	29.00	0.00	0.00	0.00	4.53	6.49	0.00	6.49	0.00	1.65	0.05	0.38	2.07	0.00	0.00	0.00	0.	0.00
81	47.500	29.00	0.00	0.00	0.00	4.53	6.49	0.00	6.49	0.00	1.64	0.05	0.37	2.06	0.00	0.00	0.00	0.	0.00
82	47.400	29.00	0.00	0.00	0.00	4.53	6.50	0.00	6.50	0.00	1.64	0.05	0.37	2.06	0.00	0.00	0.00	0.	0.00
83	47.300	29.00	0.00	0.00	0.00	4.54	6.51	0.00	6.51	0.00	1.64	0.05	0.36	2.05	0.00	0.00	0.00	0.	0.00
84	47.200	29.00	0.00	0.00	0.00	4.54	6.51	0.00	6.51	0.00	1.63	0.05	0.36	2.04	0.00	0.00	0.00	0.	0.00
85	47.100	29.00	0.00	0.00	0.00	4.55	6.52	0.00	6.52	0.00	1.63	0.05	0.35	2.03	0.00	0.00	0.00	0.	0.00
86	47.000	29.00	0.00	0.00	0.00	4.56	6.52	0.00	6.52	0.00	1.63	0.05	0.35	2.02	0.00	0.00	0.00	0.	0.00
87	46.900	29.00	0.00	0.00	0.00	4.56	6.53	0.00	6.53	0.00	1.63	0.05	0.34	2.02	0.00	0.00	0.00	0.	0.00
88	46.800	29.00	0.00	0.00	0.00	4.57	6.53	0.00	6.53	0.00	1.62	0.05	0.34	2.01	0.00	0.00	0.00	0.	0.00
89	46.700	29.00	0.00	0.00	0.00	4.57	6.54	0.00	6.54	0.00	1.62	0.05	0.34	2.00	0.00	0.00	0.00	0.	0.00
90	46.600	29.00	0.00	0.00	0.00	4.58	6.54	0.00	6.54	0.00	1.62	0.05	0.33	2.00	0.00	0.00	0.00	0.	0.00
91	46.500	29.00	0.00	0.00	0.00	4.59	6.55	0.00	6.55	0.00	1.62	0.05	0.33	1.99	0.00	0.00	0.00	0.	0.00
92	46.400	29.00	0.00	0.00	0.00	4.59	6.55	0.00	6.55	0.00	1.61	0.05	0.32	1.98	0.00	0.00	0.00	0.	0.00
93	46.300	29.00	0.00	0.00	0.00	4.60	6.55	0.00	6.55	0.00	1.61	0.05	0.32	1.98	0.00	0.00	0.00	0.	0.00
94	46.200	29.00	0.00	0.00	0.00	4.61	6.56	0.00	6.56	0.00	1.61	0.05	0.32	1.97	0.00	0.00	0.00	0.	0.00
95	46.100	29.00	0.00	0.00	0.00	4.62	6.56	0.00	6.56	0.00	1.61	0.05	0.31	1.97	0.00	0.00	0.00	0.	0.00
96	46.000	29.00	0.00	0.00	0.00	4.62	6.57	0.00	6.57	0.00	1.60	0.05	0.31	1.96	0.00	0.00	0.00	0.	0.00
97	45.900	29.00	0.00	0.00	0.00	4.63	6.57	0.00	6.57	0.00	1.60	0.05	0.31	1.95	0.00	0.00	0.00	0.	0.00
98	45.800	29.00	0.00	0.00	0.00	4.64	6.57	0.00	6.57	0.00	1.60	0.05	0.30	1.95	0.00	0.00	0.00	0.	0.00
99	45.700	29.00	0.00	0.00	0.00	4.64	6.58	0.00	6.58	0.00	1.60	0.05	0.30	1.94	0.00	0.00	0.00	0.	0.00
100	45.600	29.00	0.00	0.00	0.00	4.65	6.58	0.00	6.58	0.00	1.60	0.05	0.30	1.94	0.00	0.00	0.00	0.	0.00
101	45.500	29.00	0.00	0.00	0.00	4.66	6.58	0.00	6.58	0.00	1.59	0.05	0.29	1.93	0.00	0.00	0.00	0.	0.00
102	45.400	29.00	0.00	0.00	0.00	4.67	6.59	0.00	6.59	0.00	1.59	0.05	0.29	1.93	0.00	0.00	0.00	0.	0.00
103	45.300	29.00	0.00	0.00	0.00	4.67	6.59	0.00	6.59	0.00	1.59	0.05	0.29	1.92	0.00	0.00	0.00	0.	0.00
104	45.200	29.00	0.00	0.00	0.00	4.68	6.59	0.00	6.59	0.00	1.59	0.05	0.29	1.92	0.00	0.00	0.00	0.	0.00
105	45.100	29.00	0.00	0.00	0.00	4.69	6.60	0.00	6.60	0.00	1.59	0.04	0.28	1.91	0.00	0.00	0.00	0.	0.00
106	45.000	29.00	0.00	0.00	0.00	4.70	6.60	0.00	6.60	0.00	1.58	0.04	0.28	1.91	0.00	0.00	0.00	0.	0.00
107	44.900	29.00	0.00	0.00	0.00	4.71	6.60	0.00	6.60	0.00	1.58	0.04	0.28	1.91	0.00	0.00	0.00	0.	0.00
108	44.800	29.00	0.00	0.00	0.00	4.71	6.60	0.00	6.60	0.00	1.58	0.04	0.27	1.90	0.00	0.00	0.00	0.	0.00
109	44.700	29.00	0.00	0.00	0.00	4.72	6.61	0.00	6.61	0.00	1.58	0.04	0.27	1.90	0.00	0.00	0.00	0.	0.00
110	44.600	29.00	0.00	0.00	0.00	4.73	6.61	0.00	6.61	0.00	1.58	0.04	0.27	1.89	0.00	0.00	0.00	0.	0.00
111	44.500	29.00	0.00	0.00	0.00	4.74	6.61	0.00	6.61	0.00	1.58	0.04	0.27	1.89	0.00	0.00	0.00	0.	0.00
112	44.400	29.00	0.00	0.00	0.00	4.74	6.61	0.00	6.61	0.00	1.58	0.04	0.26	1.88	0.00	0.00	0.00	0.	0.00
113	44.300	29.00	0.00	0.00	0.00	4.75	6.62	0.00	6.62	0.00	1.57	0.04	0.26	1.88	0.00	0.00	0.00	0.	0.00
114	44.200	29.00	0.00	0.00	0.00	4.76	6.62	0.00	6.62	0.00	1.57	0.04	0.26	1.88	0.00	0.00	0.00	0.	0.00
115	44.100	29.00	0.00	0.00	0.00	4.77	6.62	0.00	6.62	0.00	1.57	0.04	0.26	1.87	0.00	0.00	0.00	0.	0.00
116	44.000	29.00	0.00	0.00	0.00	4.77	6.62	0.00	6.62	0.00	1.57	0.04	0.26	1.87	0.00	0.00	0.00	0.	0.00
117	43.900	29.00	0.00	0.00	0.00	4.78	6.63	0.00	6.63	0.00	1.57	0.04	0.25	1.87	0.00	0.00	0.00	0.	0.00
118	43.800	29.00	0.00	0.00	0.00	4.79	6.63	0.00	6.63	0.00	1.57	0.04	0.25	1.86	0.00	0.00	0.00	0.	0.00
119	43.700	29.00	0.00	0.00	0.00	4.80	6.63	0.00	6.63	0.00	1.57	0.04	0.25	1.86	0.00	0.00	0.00	0.	0.00
120	43.600	29.00	0.00	0.00	0.00	4.81	6.63	0.00	6.63	0.00	1.56	0.04	0.25	1.86	0.00	0.00	0.00	0.	0.00
121	43.500	29.00	0.00	0.00	0.00	4.81	6.63	0.00	6.63	0.00	1.56	0.04	0.24	1.85	0.00	0.00	0.00	0.	0.00
122	43.400	29.00	0.00	0.00	0.00	4.82	6.64	0.00	6.64	0.00	1.56	0.04	0.24	1.85	0.00	0.00	0.00	0.	0.00
123	43.300	29.00	0.00	0.00	0.00	4.83	6.64	0.00	6.64	0.00	1.56	0.04	0.24	1.85	0.00	0.00	0.00	0.	0.00
124	43.200	29.00	0.00	0.00	0.00	4.84	6.64	0.00	6.64	0.00	1.56	0.04	0.24	1.84	0.00	0.00	0.00	0.	0.00
125	43.100	29.00	0.00	0.00	0.00	4.84	6.64	0.00	6.64	0.00	1.56	0.04	0.24	1.84	0.00	0.00	0.00	0.	0.00

FINAL REPORT Bayou Cholpe #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 5 Choctaw Bayou #1 Calibration Simulation for Upper Terrebonne model
********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
229	UPR RCH	0.67955	29.00	0.00	0.00	0.00	4.84	6.64	0.00	6.64	0.00	1.56	0.04	0.24	0.00	0.00	0.00	0.00
229	TRIB	0.25756	29.00	0.00	0.00	0.00	4.21	30.63	0.00	30.63	0.00	2.40	0.07	0.81	0.00	0.00	0.00	0.00
230	WSTLD	0.37939	26.50	0.00	0.00	0.00	3.60	9.90	0.00	9.90	0.00	1.00	0.10	1.00	0.00	0.00	0.00	0.00
271	WSTLD	0.00022	29.00	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.20	1.50	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m≥/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m≥	VOLUME AREA m≤	AREA m≤	PRISM m≥	SURFACE VELO m/s	X-SECT VELO m≤/s	TIDAL VELO m/s	TIDAL	DISPRSN	MEAN
229	43.10	43.00	0.93711	0.3	0.01148	0.10	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.011		
230	43.00	42.90	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
231	42.90	42.80	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
232	42.80	42.70	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
233	42.70	42.60	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
234	42.60	42.50	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
235	42.50	42.40	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
236	42.40	42.30	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
237	42.30	42.20	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
238	42.20	42.10	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
239	42.10	42.00	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
240	42.00	41.90	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
241	41.90	41.80	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
242	41.80	41.70	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
243	41.70	41.60	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
244	41.60	41.50	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
245	41.50	41.40	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
246	41.40	41.30	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
247	41.30	41.20	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
248	41.20	41.10	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
249	41.10	41.00	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
250	41.00	40.90	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
251	40.90	40.80	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
252	40.80	40.70	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
253	40.70	40.60	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
254	40.60	40.50	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
255	40.50	40.40	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
256	40.40	40.30	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
257	40.30	40.20	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
258	40.20	40.10	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
259	40.10	40.00	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
260	40.00	39.90	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
261	39.90	39.80	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
262	39.80	39.70	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
263	39.70	39.60	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		
264	39.60	39.50	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016		

265	39.50	39.40	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016
266	39.40	39.30	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016
267	39.30	39.20	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016
268	39.20	39.10	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016
269	39.10	39.00	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016
270	39.00	38.90	1.31650	29.0	0.01613	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016
271	38.90	38.80	1.31672	29.0	0.01614	0.07	2.40	34.00	8160.00	3400.00	81.60	0.00	0.000	0.000	0.016
TOT					3.11			350880.03	146200.00						
AVG					0.0160		2.40	34.00			81.60				
CUM					6.86										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORGN SETT **	ORGN DECAY **	NH3 SRCE 1/da	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT
229	43.000	7.68	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.02	0.00	0.36	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
230	42.900	7.68	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.32	5.32	5.32	0.02	0.00	0.36	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
231	42.800	7.67	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.34	5.34	5.34	0.02	0.00	0.35	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
232	42.700	7.66	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.36	5.36	5.36	0.02	0.00	0.35	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
233	42.600	7.66	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.38	5.38	5.38	0.02	0.00	0.34	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
234	42.500	7.65	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.40	5.40	5.40	0.02	0.00	0.34	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
235	42.400	7.64	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.41	5.41	5.41	0.02	0.00	0.34	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
236	42.300	7.63	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.43	5.43	5.43	0.02	0.00	0.33	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
237	42.200	7.63	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.45	5.45	5.45	0.02	0.00	0.33	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
238	42.100	7.62	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.47	5.47	5.47	0.02	0.00	0.33	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
239	42.000	7.61	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.49	5.49	5.49	0.02	0.00	0.32	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
240	41.900	7.61	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.51	5.51	5.51	0.02	0.00	0.32	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
241	41.800	7.60	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.52	5.52	5.52	0.02	0.00	0.32	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
242	41.700	7.59	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.54	5.54	5.54	0.02	0.00	0.31	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
243	41.600	7.58	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.56	5.56	5.56	0.02	0.00	0.31	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
244	41.500	7.58	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.58	5.58	5.58	0.02	0.00	0.31	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
245	41.400	7.57	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.60	5.60	5.60	0.02	0.00	0.31	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
246	41.300	7.56	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.62	5.62	5.62	0.02	0.00	0.31	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00
247	41.200	7.56	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.64	5.64	5.64	0.02	0.00	0.31	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.00
248	41.100	7.55	0.35	0.17	0.00	0.00	0.00	0.00	0.00	5.66	5.66	5.66	0.02	0.00	0.31	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
249	41.000	7.54	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.02	0.00	0.31	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00
250	40.900	7.54	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.02	0.00	0.31	0.00	0.00	0.00	2.69	0.00	0.00	0.00	0.00
251	40.800	7.53	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.71	5.71	5.71	0.02	0.00	0.31	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
252	40.700	7.52	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.73	5.73	5.73	0.02	0.00	0.31	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00
253	40.600	7.51	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.75	5.75	5.75	0.02	0.00	0.31	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
254	40.500	7.51	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.77	5.77	5.77	0.02	0.00	0.32	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
255	40.400	7.50	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.79	5.79	5.79	0.02	0.00	0.32	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00
256	40.300	7.49	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.81	5.81	5.81	0.02	0.00	0.32	0.00	0.00	0.00	3.48	0.00	0.00	0.00	0.00
257	40.200	7.49	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.83	5.83	5.83	0.02	0.00	0.33	0.00	0.00	0.00	3.61	0.00	0.00	0.00	0.00
258	40.100	7.48	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.85	5.85	5.85	0.02	0.00	0.33	0.00	0.00	0.00	3.75	0.00	0.00	0.00	0.00
259	40.000	7.47	0.35	0.18	0.00	0.00	0.00	0.00	0.00	5.87	5.87	5.87	0.02	0.00	0.34	0.00	0.00	0.00	3.88	0.00	0.00	0.00	0.00
260	39.900	7.47	0.36	0.18	0.00	0.00	0.00	0.00	0.00	5.89	5.89	5.89	0.02	0.00	0.34	0.00	0.00	0.00	4.02	0.00	0.00	0.00	0.00
261	39.800	7.46	0.36	0.18	0.00	0.00	0.00	0.00	0.00	5.91	5.91	5.91	0.02	0.00	0.35	0.00	0.00	0.00	4.15	0.00	0.00	0.00	0.00

262	39.700	7.45	0.36	0.18	0.00	0.00	0.00	0.00	0.00	5.93	5.93	5.93	0.02	0.00	0.35	0.00	0.00	0.00	4.29	0.00	0.00	0.00	0.00
263	39.600	7.45	0.36	0.18	0.00	0.00	0.00	0.00	0.00	5.95	5.95	5.95	0.02	0.00	0.36	0.00	0.00	0.00	4.43	0.00	0.00	0.00	0.00
264	39.500	7.44	0.36	0.18	0.00	0.00	0.00	0.00	0.00	5.97	5.97	5.97	0.02	0.00	0.37	0.00	0.00	0.00	4.56	0.00	0.00	0.00	0.00
265	39.400	7.43	0.36	0.18	0.00	0.00	0.00	0.00	0.00	5.99	5.99	5.99	0.02	0.00	0.37	0.00	0.00	0.00	4.70	0.00	0.00	0.00	0.00
266	39.300	7.43	0.36	0.18	0.00	0.00	0.00	0.00	0.00	6.01	6.01	6.01	0.02	0.00	0.38	0.00	0.00	0.00	4.84	0.00	0.00	0.00	0.00
267	39.200	7.42	0.36	0.18	0.00	0.00	0.00	0.00	0.00	6.03	6.03	6.03	0.02	0.00	0.39	0.00	0.00	0.00	4.98	0.00	0.00	0.00	0.00
268	39.100	7.41	0.36	0.18	0.00	0.00	0.00	0.00	0.00	6.05	6.05	6.05	0.02	0.00	0.39	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
269	39.000	7.41	0.36	0.18	0.00	0.00	0.00	0.00	0.00	6.07	6.07	6.07	0.02	0.00	0.40	0.00	0.00	0.00	5.26	0.00	0.00	0.00	0.00
270	38.900	7.40	0.36	0.18	0.00	0.00	0.00	0.00	0.00	6.09	6.09	6.09	0.02	0.00	0.40	0.00	0.00	0.00	5.40	0.00	0.00	0.00	0.00
271	38.800	7.39	0.36	0.18	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.03	0.00	0.41	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.29 0.11 0.00 0.00 0.00 0.00 0.00 3.00 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO	COLI #/100mL	NCM
229	43.000	29.05	0.00	0.00	0.00	4.34	13.25	0.00	13.25	0.00	1.79	0.05	0.40	2.24	0.00	1.53	0.00	0.	0.00
230	42.900	29.11	0.00	0.00	0.00	3.93	12.30	0.00	12.30	0.00	1.56	0.07	0.57	2.20	0.00	3.07	0.00	0.	0.00
231	42.800	29.16	0.00	0.00	0.00	3.73	12.32	0.00	12.32	0.00	1.55	0.07	0.57	2.19	0.00	4.60	0.00	0.	0.00
232	42.700	29.21	0.00	0.00	0.00	3.55	12.34	0.00	12.34	0.00	1.55	0.07	0.57	2.19	0.00	6.14	0.00	0.	0.00
233	42.600	29.27	0.00	0.00	0.00	3.38	12.36	0.00	12.36	0.00	1.55	0.07	0.57	2.19	0.00	7.67	0.00	0.	0.00
234	42.500	29.32	0.00	0.00	0.00	3.22	12.38	0.00	12.38	0.00	1.55	0.07	0.57	2.19	0.00	9.21	0.00	0.	0.00
235	42.400	29.37	0.00	0.00	0.00	3.08	12.39	0.00	12.39	0.00	1.54	0.07	0.57	2.19	0.00	10.74	0.00	0.	0.00
236	42.300	29.43	0.00	0.00	0.00	2.94	12.41	0.00	12.41	0.00	1.54	0.07	0.57	2.18	0.00	12.28	0.00	0.	0.00
237	42.200	29.48	0.00	0.00	0.00	2.82	12.43	0.00	12.43	0.00	1.54	0.08	0.57	2.18	0.00	13.81	0.00	0.	0.00
238	42.100	29.53	0.00	0.00	0.00	2.70	12.44	0.00	12.44	0.00	1.54	0.08	0.56	2.17	0.00	15.35	0.00	0.	0.00
239	42.000	29.59	0.00	0.00	0.00	2.60	12.46	0.00	12.46	0.00	1.53	0.08	0.56	2.17	0.00	16.88	0.00	0.	0.00
240	41.900	29.64	0.00	0.00	0.00	2.50	12.47	0.00	12.47	0.00	1.53	0.08	0.56	2.16	0.00	18.42	0.00	0.	0.00
241	41.800	29.70	0.00	0.00	0.00	2.42	12.49	0.00	12.49	0.00	1.53	0.08	0.55	2.16	0.00	19.95	0.00	0.	0.00
242	41.700	29.75	0.00	0.00	0.00	2.34	12.50	0.00	12.50	0.00	1.52	0.08	0.55	2.15	0.00	21.49	0.00	0.	0.00
243	41.600	29.80	0.00	0.00	0.00	2.27	12.51	0.00	12.51	0.00	1.52	0.08	0.54	2.15	0.00	23.02	0.00	0.	0.00
244	41.500	29.86	0.00	0.00	0.00	2.22	12.52	0.00	12.52	0.00	1.52	0.08	0.54	2.14	0.00	24.56	0.00	0.	0.00
245	41.400	29.91	0.00	0.00	0.00	2.17	12.54	0.00	12.54	0.00	1.52	0.08	0.53	2.13	0.00	26.09	0.00	0.	0.00
246	41.300	29.96	0.00	0.00	0.00	2.13	12.55	0.00	12.55	0.00	1.51	0.08	0.53	2.12	0.00	27.63	0.00	0.	0.00
247	41.200	30.02	0.00	0.00	0.00	2.10	12.56	0.00	12.56	0.00	1.51	0.08	0.52	2.12	0.00	29.16	0.00	0.	0.00
248	41.100	30.07	0.00	0.00	0.00	2.08	12.57	0.00	12.57	0.00	1.51	0.08	0.51	2.11	0.00	30.70	0.00	0.	0.00
249	41.000	30.12	0.00	0.00	0.00	2.06	12.58	0.00	12.58	0.00	1.51	0.09	0.51	2.10	0.00	32.23	0.00	0.	0.00
250	40.900	30.18	0.00	0.00	0.00	2.06	12.59	0.00	12.59	0.00	1.50	0.09	0.50	2.09	0.00	33.77	0.00	0.	0.00
251	40.800	30.23	0.00	0.00	0.00	2.06	12.60	0.00	12.60	0.00	1.50	0.09	0.49	2.08	0.00	35.30	0.00	0.	0.00
252	40.700	30.28	0.00	0.00	0.00	2.07	12.60	0.00	12.60	0.00	1.50	0.09	0.48	2.07	0.00	36.84	0.00	0.	0.00
253	40.600	30.34	0.00	0.00	0.00	2.09	12.61	0.00	12.61	0.00	1.50	0.09	0.47	2.06	0.00	38.37	0.00	0.	0.00
254	40.500	30.39	0.00	0.00	0.00	2.12	12.62	0.00	12.62	0.00	1.49	0.09	0.46	2.04	0.00	39.91	0.00	0.	0.00
255	40.400	30.44	0.00	0.00	0.00	2.15	12.62	0.00	12.62	0.00	1.49	0.09	0.45	2.03	0.00	41.44	0.00	0.	0.00
256	40.300	30.50	0.00	0.00	0.00	2.19	12.63	0.00	12.63	0.00	1.49	0.09	0.44	2.02	0.00	42.98	0.00	0.	0.00
257	40.200	30.55	0.00	0.00	0.00	2.24	12.64	0.00	12.64	0.00	1.49	0.09	0.43	2.01	0.00	44.51	0.00	0.	0.00
258	40.100	30.60	0.00	0.00	0.00	2.29	12.64	0.00	12.64	0.00	1.48	0.09	0.42	1.99	0.00	46.05	0.00	0.	0.00
259	40.000	30.66	0.00	0.00	0.00	2.35	12.65	0.00	12.65	0.00	1.48	0.09	0.41	1.98	0.00	47.58	0.00	0.	0.00

260	39.900	30.71	0.00	0.00	0.00	2.42	12.65	0.00	12.65	0.00	1.48	0.09	0.40	1.97	0.00	49.12	0.00	0.	0.00
261	39.800	30.77	0.00	0.00	0.00	2.49	12.66	0.00	12.66	0.00	1.47	0.09	0.38	1.95	0.00	50.65	0.00	0.	0.00
262	39.700	30.82	0.00	0.00	0.00	2.57	12.66	0.00	12.66	0.00	1.47	0.09	0.37	1.94	0.00	52.19	0.00	0.	0.00
263	39.600	30.87	0.00	0.00	0.00	2.66	12.66	0.00	12.66	0.00	1.47	0.09	0.36	1.92	0.00	53.72	0.00	0.	0.00
264	39.500	30.93	0.00	0.00	0.00	2.75	12.66	0.00	12.66	0.00	1.47	0.09	0.34	1.90	0.00	55.26	0.00	0.	0.00
265	39.400	30.98	0.00	0.00	0.00	2.85	12.67	0.00	12.67	0.00	1.46	0.09	0.33	1.89	0.00	56.79	0.00	0.	0.00
266	39.300	31.03	0.00	0.00	0.00	2.96	12.67	0.00	12.67	0.00	1.46	0.09	0.31	1.87	0.00	58.33	0.00	0.	0.00
267	39.200	31.09	0.00	0.00	0.00	3.07	12.67	0.00	12.67	0.00	1.46	0.09	0.30	1.85	0.00	59.86	0.00	0.	0.00
268	39.100	31.14	0.00	0.00	0.00	3.19	12.67	0.00	12.67	0.00	1.46	0.09	0.28	1.83	0.00	61.40	0.00	0.	0.00
269	39.000	31.19	0.00	0.00	0.00	3.31	12.67	0.00	12.67	0.00	1.45	0.09	0.27	1.81	0.00	62.93	0.00	0.	0.00
270	38.900	31.25	0.00	0.00	0.00	3.44	12.67	0.00	12.67	0.00	1.45	0.09	0.25	1.79	0.00	64.47	0.00	0.	0.00
271	38.800	31.30	0.00	0.00	0.00	3.57	12.68	0.00	12.68	0.00	1.45	0.09	0.23	1.77	0.00	66.00	0.00	0.	0.00

FINAL REPORT Bayou Cholpe #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 8 Choctaw Bayou #2 Calibration Simulation for Upper Terrebonne model
********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
347	UPR RCH	1.31672	31.30	0.00	0.00	0.00	3.57	12.68	0.00	12.68	0.00	1.45	0.09	0.23	0.00	66.00	0.00	0.00
347	TRIB	0.00915	31.30	0.00	0.00	0.00	5.59	6.84	0.00	6.84	0.00	2.02	0.05	0.00	0.00	66.00	0.00	0.00
366	WSTLD	0.23500	27.60	0.00	0.00	0.00	3.10	4.30	0.00	4.30	0.00	1.50	1.50	0.10	0.00	0.00	0.00	0.00
367	WSTLD	0.01882	27.60	0.00	0.00	0.00	3.10	27.70	0.00	27.70	0.00	1.50	1.50	0.10	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m≥/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m≥	VOLUME AREA m≤	SURFACE AREA m≤	X-SECT PRISM m≥	TIDAL VELO m/s	TIDAL VELO m≤/s	DISPRSN m/s	MEAN
347	38.80	38.70	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
348	38.70	38.60	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
349	38.60	38.50	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
350	38.50	38.40	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
351	38.40	38.30	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
352	38.30	38.20	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
353	38.20	38.10	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
354	38.10	38.00	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
355	38.00	37.90	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
356	37.90	37.80	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
357	37.80	37.70	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
358	37.70	37.60	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
359	37.60	37.50	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
360	37.50	37.40	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
361	37.40	37.30	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
362	37.30	37.20	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
363	37.20	37.10	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
364	37.10	37.00	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
365	37.00	36.90	1.32587	29.0	0.01007	0.11	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.010
366	36.90	36.80	1.56087	39.7	0.01186	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
367	36.80	36.70	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012

368	36.70	36.60	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
369	36.60	36.50	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
370	36.50	36.40	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
371	36.40	36.30	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
372	36.30	36.20	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
373	36.20	36.10	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
374	36.10	36.00	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
375	36.00	35.90	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
376	35.90	35.80	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
377	35.80	35.70	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
378	35.70	35.60	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
379	35.60	35.50	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
380	35.50	35.40	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
381	35.40	35.30	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
382	35.30	35.20	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
383	35.20	35.10	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
384	35.10	35.00	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
385	35.00	34.90	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
386	34.90	34.80	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
387	34.80	34.70	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
388	34.70	34.60	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
389	34.60	34.50	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
390	34.50	34.40	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
391	34.40	34.30	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
392	34.30	34.20	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
393	34.20	34.10	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
394	34.10	34.00	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
395	34.00	33.90	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
396	33.90	33.80	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
397	33.80	33.70	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
398	33.70	33.60	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
399	33.60	33.50	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
400	33.50	33.40	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
401	33.40	33.30	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
402	33.30	33.20	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
403	33.20	33.10	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
404	33.10	33.00	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
405	33.00	32.90	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
406	32.90	32.80	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
407	32.80	32.70	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
408	32.70	32.60	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
409	32.60	32.50	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
410	32.50	32.40	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
411	32.40	32.30	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
412	32.30	32.20	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
413	32.20	32.10	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
414	32.10	32.00	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
415	32.00	31.90	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
416	31.90	31.80	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
417	31.80	31.70	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012

418	31.70	31.60	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012
419	31.60	31.50	1.57969	40.4	0.01200	0.10	2.80	47.00	13160.00	4700.00	131.60	0.00	0.000	0.000	0.012

TOT			7.39		960679.94	343100.00
AVG		0.0114		2.80	47.00	131.60
CUM			14.25			

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORGN SETT **	ORGN DECAY **	NH3 SRCE 1/da	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM	NCM SETT
347	38.700	7.39	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.42	0.00	0.00	0.00	5.47	0.00	0.00	0.00	0.00
348	38.600	7.39	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.03	0.00	0.43	0.00	0.00	0.00	5.39	0.00	0.00	0.00	0.00
349	38.500	7.40	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.44	0.00	0.00	0.00	5.31	0.00	0.00	0.00	0.00
350	38.400	7.40	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.45	0.00	0.00	0.00	5.23	0.00	0.00	0.00	0.00
351	38.300	7.40	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.45	0.00	0.00	0.00	5.15	0.00	0.00	0.00	0.00
352	38.200	7.40	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.46	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00
353	38.100	7.40	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.46	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00
354	38.000	7.40	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	2.02	0.02	0.00	0.47	0.00	0.00	0.00	4.92	0.00	0.00	0.00	0.00
355	37.900	7.41	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	2.02	0.02	0.00	0.47	0.00	0.00	0.00	4.84	0.00	0.00	0.00	0.00
356	37.800	7.41	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	2.02	0.02	0.00	0.47	0.00	0.00	0.00	4.76	0.00	0.00	0.00	0.00
357	37.700	7.41	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	2.02	0.02	0.00	0.47	0.00	0.00	0.00	4.68	0.00	0.00	0.00	0.00
358	37.600	7.41	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	2.02	0.02	0.00	0.48	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00
359	37.500	7.41	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	2.02	0.02	0.00	0.48	0.00	0.00	0.00	4.52	0.00	0.00	0.00	0.00
360	37.400	7.41	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	2.02	0.02	0.00	0.48	0.00	0.00	0.00	4.45	0.00	0.00	0.00	0.00
361	37.300	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	2.01	0.02	0.00	0.48	0.00	0.00	0.00	4.37	0.00	0.00	0.00	0.00
362	37.200	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	2.01	0.02	0.00	0.48	0.00	0.00	0.00	4.29	0.00	0.00	0.00	0.00
363	37.100	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	2.01	0.02	0.00	0.48	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.00
364	37.000	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	2.01	0.02	0.00	0.48	0.00	0.00	0.00	4.14	0.00	0.00	0.00	0.00
365	36.900	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	2.01	0.02	0.00	0.48	0.00	0.00	0.00	4.06	0.00	0.00	0.00	0.00
366	36.800	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	2.01	0.02	0.00	0.48	0.00	0.00	0.00	3.98	0.00	0.00	0.00	0.00
367	36.700	7.42	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.90	0.00	0.00	0.00	0.00
368	36.600	7.43	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
369	36.500	7.43	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.75	0.00	0.00	0.00	0.00
370	36.400	7.43	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.67	0.00	0.00	0.00	0.00
371	36.300	7.43	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.59	0.00	0.00	0.00	0.00
372	36.200	7.43	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.52	0.00	0.00	0.00	0.00
373	36.100	7.43	0.31	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.02	0.00	0.48	0.00	0.00	0.00	3.44	0.00	0.00	0.00	0.00
374	36.000	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.02	0.00	0.48	0.00	0.00	0.00	3.36	0.00	0.00	0.00	0.00
375	35.900	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.02	0.00	0.48	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
376	35.800	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.02	0.00	0.48	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00
377	35.700	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.02	0.00	0.47	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00
378	35.600	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.02	0.00	0.47	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00
379	35.500	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.02	0.00	0.47	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
380	35.400	7.44	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	1.98	0.02	0.00	0.47	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
381	35.300	7.45	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	1.98	0.02	0.00	0.47	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
382	35.200	7.45	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	1.98	0.02	0.00	0.47	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
383	35.100	7.45	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	1.98	0.02	0.00	0.47	0.00	0.00	0.00	2.68	0.00	0.00	0.00	0.00
384	35.000	7.45	0.31	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	1.98	0.02	0.00	0.47	0.00	0.00	0.00	2.60	0.00	0.00	0.00	0.00

385	34.900	7.45	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	1.98	0.02	0.00	0.47	0.00	0.00	0.00	2.53	0.00	0.00	0.00	0.00
386	34.800	7.45	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.02	0.00	0.47	0.00	0.00	0.00	2.45	0.00	0.00	0.00	0.00
387	34.700	7.46	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.02	0.00	0.47	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
388	34.600	7.46	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.02	0.00	0.47	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
389	34.500	7.46	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.02	0.00	0.46	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
390	34.400	7.46	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.02	0.00	0.46	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
391	34.300	7.46	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.02	0.00	0.46	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
392	34.200	7.46	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.02	0.00	0.46	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
393	34.100	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.02	0.00	0.46	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
394	34.000	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.02	0.00	0.46	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
395	33.900	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.02	0.00	0.46	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
396	33.800	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.02	0.00	0.45	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
397	33.700	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.02	0.00	0.45	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
398	33.600	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.02	0.00	0.45	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
399	33.500	7.47	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.02	0.00	0.45	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
400	33.400	7.48	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.45	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
401	33.300	7.48	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.45	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
402	33.200	7.48	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.44	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
403	33.100	7.48	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.44	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
404	33.000	7.48	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.44	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
405	32.900	7.48	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.02	0.00	0.44	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
406	32.800	7.49	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	1.94	0.02	0.00	0.43	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
407	32.700	7.49	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	1.94	0.02	0.00	0.43	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
408	32.600	7.49	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	1.94	0.02	0.00	0.43	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
409	32.500	7.49	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	1.94	0.02	0.00	0.43	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
410	32.400	7.49	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	1.94	0.02	0.00	0.42	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
411	32.300	7.49	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	1.94	0.02	0.00	0.42	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
412	32.200	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.94	1.94	1.94	0.02	0.00	0.42	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
413	32.100	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.02	0.00	0.41	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
414	32.000	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.02	0.00	0.41	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
415	31.900	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.02	0.00	0.41	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
416	31.800	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.02	0.00	0.40	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
417	31.700	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.02	0.00	0.40	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
418	31.600	7.50	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.02	0.00	0.39	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
419	31.500	7.51	0.30	0.18	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.25 0.11 0.00 0.00 0.00 0.00 0.00 1.00 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO #/100mL	COLI	NCM
347	38.700	31.29	0.00	0.00	0.00	3.96	12.58	0.00	12.58	0.00	1.45	0.09	0.20	1.74	0.00	65.10	0.00	0.	0.00
348	38.600	31.28	0.00	0.00	0.00	4.32	12.53	0.00	12.53	0.00	1.44	0.09	0.18	1.71	0.00	64.19	0.00	0.	0.00
349	38.500	31.26	0.00	0.00	0.00	4.66	12.48	0.00	12.48	0.00	1.44	0.09	0.15	1.68	0.00	63.29	0.00	0.	0.00
350	38.400	31.25	0.00	0.00	0.00	4.98	12.44	0.00	12.44	0.00	1.44	0.09	0.12	1.65	0.00	62.38	0.00	0.	0.00
351	38.300	31.24	0.00	0.00	0.00	5.28	12.39	0.00	12.39	0.00	1.43	0.09	0.10	1.62	0.00	61.48	0.00	0.	0.00
352	38.200	31.23	0.00	0.00	0.00	5.56	12.34	0.00	12.34	0.00	1.43	0.09	0.08	1.59	0.00	60.58	0.00	0.	0.00

353	38.100	31.21	0.00	0.00	0.00	5.83	12.30	0.00	12.30	0.00	1.42	0.09	0.05	1.56	0.00	59.67	0.00	0.	0.00
354	38.000	31.20	0.00	0.00	0.00	6.08	12.25	0.00	12.25	0.00	1.42	0.09	0.03	1.54	0.00	58.77	0.00	0.	0.00
355	37.900	31.19	0.00	0.00	0.00	6.31	12.21	0.00	12.21	0.00	1.42	0.09	0.00	1.51	0.00	57.86	0.00	0.	0.00
356	37.800	31.18	0.00	0.00	0.00	6.53	12.17	0.00	12.17	0.00	1.41	0.09	0.00	1.50	0.00	56.96	0.00	0.	0.00
357	37.700	31.16	0.00	0.00	0.00	6.73	12.13	0.00	12.13	0.00	1.41	0.09	0.00	1.49	0.00	56.05	0.00	0.	0.00
358	37.600	31.15	0.00	0.00	0.00	6.92	12.09	0.00	12.09	0.00	1.40	0.09	0.00	1.49	0.00	55.15	0.00	0.	0.00
359	37.500	31.14	0.00	0.00	0.00	7.09	12.05	0.00	12.05	0.00	1.40	0.08	0.00	1.48	0.00	54.25	0.00	0.	0.00
360	37.400	31.13	0.00	0.00	0.00	7.25	12.01	0.00	12.01	0.00	1.40	0.08	0.00	1.48	0.00	53.34	0.00	0.	0.00
361	37.300	31.12	0.00	0.00	0.00	7.40	11.98	0.00	11.98	0.00	1.39	0.08	0.00	1.48	0.00	52.44	0.00	0.	0.00
362	37.200	31.10	0.00	0.00	0.00	7.54	11.94	0.00	11.94	0.00	1.39	0.08	0.00	1.47	0.00	51.53	0.00	0.	0.00
363	37.100	31.09	0.00	0.00	0.00	7.66	11.90	0.00	11.90	0.00	1.38	0.08	0.00	1.47	0.00	50.63	0.00	0.	0.00
364	37.000	31.08	0.00	0.00	0.00	7.77	11.87	0.00	11.87	0.00	1.38	0.08	0.00	1.46	0.00	49.73	0.00	0.	0.00
365	36.900	31.07	0.00	0.00	0.00	7.87	11.84	0.00	11.84	0.00	1.38	0.08	0.00	1.46	0.00	48.82	0.00	0.	0.00
366	36.800	31.05	0.00	0.00	0.00	7.23	10.69	0.00	10.69	0.00	1.39	0.28	0.00	1.68	0.00	47.92	0.00	0.	0.00
367	36.700	31.04	0.00	0.00	0.00	7.24	10.89	0.00	10.89	0.00	1.39	0.29	0.00	1.68	0.00	47.01	0.00	0.	0.00
368	36.600	31.03	0.00	0.00	0.00	7.30	10.88	0.00	10.88	0.00	1.39	0.28	0.00	1.67	0.00	46.11	0.00	0.	0.00
369	36.500	31.02	0.00	0.00	0.00	7.35	10.86	0.00	10.86	0.00	1.38	0.27	0.00	1.65	0.00	45.21	0.00	0.	0.00
370	36.400	31.00	0.00	0.00	0.00	7.39	10.85	0.00	10.85	0.00	1.38	0.26	0.00	1.64	0.00	44.30	0.00	0.	0.00
371	36.300	30.99	0.00	0.00	0.00	7.43	10.84	0.00	10.84	0.00	1.38	0.25	0.00	1.63	0.00	43.40	0.00	0.	0.00
372	36.200	30.98	0.00	0.00	0.00	7.46	10.83	0.00	10.83	0.00	1.37	0.25	0.00	1.62	0.00	42.49	0.00	0.	0.00
373	36.100	30.97	0.00	0.00	0.00	7.48	10.83	0.00	10.83	0.00	1.37	0.24	0.00	1.61	0.00	41.59	0.00	0.	0.00
374	36.000	30.95	0.00	0.00	0.00	7.50	10.82	0.00	10.82	0.00	1.37	0.23	0.00	1.60	0.00	40.68	0.00	0.	0.00
375	35.900	30.94	0.00	0.00	0.00	7.51	10.81	0.00	10.81	0.00	1.36	0.22	0.00	1.59	0.00	39.78	0.00	0.	0.00
376	35.800	30.93	0.00	0.00	0.00	7.52	10.80	0.00	10.80	0.00	1.36	0.22	0.00	1.58	0.00	38.88	0.00	0.	0.00
377	35.700	30.92	0.00	0.00	0.00	7.52	10.79	0.00	10.79	0.00	1.36	0.21	0.00	1.57	0.00	37.97	0.00	0.	0.00
378	35.600	30.91	0.00	0.00	0.00	7.52	10.78	0.00	10.78	0.00	1.35	0.20	0.00	1.56	0.00	37.07	0.00	0.	0.00
379	35.500	30.89	0.00	0.00	0.00	7.51	10.77	0.00	10.77	0.00	1.35	0.20	0.00	1.55	0.00	36.16	0.00	0.	0.00
380	35.400	30.88	0.00	0.00	0.00	7.49	10.77	0.00	10.77	0.00	1.35	0.19	0.00	1.54	0.00	35.26	0.00	0.	0.00
381	35.300	30.87	0.00	0.00	0.00	7.47	10.76	0.00	10.76	0.00	1.34	0.19	0.00	1.53	0.00	34.36	0.00	0.	0.00
382	35.200	30.86	0.00	0.00	0.00	7.44	10.75	0.00	10.75	0.00	1.34	0.18	0.00	1.52	0.00	33.45	0.00	0.	0.00
383	35.100	30.84	0.00	0.00	0.00	7.41	10.75	0.00	10.75	0.00	1.34	0.18	0.00	1.51	0.00	32.55	0.00	0.	0.00
384	35.000	30.83	0.00	0.00	0.00	7.37	10.74	0.00	10.74	0.00	1.33	0.17	0.00	1.51	0.00	31.64	0.00	0.	0.00
385	34.900	30.82	0.00	0.00	0.00	7.33	10.73	0.00	10.73	0.00	1.33	0.17	0.00	1.50	0.00	30.74	0.00	0.	0.00
386	34.800	30.81	0.00	0.00	0.00	7.29	10.73	0.00	10.73	0.00	1.33	0.16	0.00	1.49	0.00	29.84	0.00	0.	0.00
387	34.700	30.79	0.00	0.00	0.00	7.24	10.72	0.00	10.72	0.00	1.32	0.16	0.00	1.48	0.00	28.93	0.00	0.	0.00
388	34.600	30.78	0.00	0.00	0.00	7.18	10.71	0.00	10.71	0.00	1.32	0.16	0.00	1.48	0.00	28.03	0.00	0.	0.00
389	34.500	30.77	0.00	0.00	0.00	7.12	10.71	0.00	10.71	0.00	1.32	0.15	0.00	1.47	0.00	27.12	0.00	0.	0.00
390	34.400	30.76	0.00	0.00	0.00	7.06	10.70	0.00	10.70	0.00	1.31	0.15	0.00	1.46	0.00	26.22	0.00	0.	0.00
391	34.300	30.75	0.00	0.00	0.00	6.99	10.70	0.00	10.70	0.00	1.31	0.15	0.00	1.46	0.00	25.32	0.00	0.	0.00
392	34.200	30.73	0.00	0.00	0.00	6.92	10.69	0.00	10.69	0.00	1.31	0.14	0.00	1.45	0.00	24.41	0.00	0.	0.00
393	34.100	30.72	0.00	0.00	0.00	6.84	10.69	0.00	10.69	0.00	1.31	0.14	0.00	1.44	0.00	23.51	0.00	0.	0.00
394	34.000	30.71	0.00	0.00	0.00	6.76	10.68	0.00	10.68	0.00	1.30	0.14	0.00	1.44	0.00	22.60	0.00	0.	0.00
395	33.900	30.70	0.00	0.00	0.00	6.68	10.68	0.00	10.68	0.00	1.30	0.13	0.00	1.43	0.00	21.70	0.00	0.	0.00
396	33.800	30.68	0.00	0.00	0.00	6.59	10.68	0.00	10.68	0.00	1.30	0.13	0.00	1.43	0.00	20.79	0.00	0.	0.00
397	33.700	30.67	0.00	0.00	0.00	6.50	10.67	0.00	10.67	0.00	1.29	0.13	0.00	1.42	0.00	19.89	0.00	0.	0.00
398	33.600	30.66	0.00	0.00	0.00	6.40	10.67	0.00	10.67	0.00	1.29	0.13	0.00	1.42	0.00	18.99	0.00	0.	0.00
399	33.500	30.65	0.00	0.00	0.00	6.31	10.66	0.00	10.66	0.00	1.29	0.12	0.00	1.41	0.00	18.08	0.00	0.	0.00
400	33.400	30.63	0.00	0.00	0.00	6.20	10.66	0.00	10.66	0.00	1.28	0.12	0.00	1.41	0.00	17.18	0.00	0.	0.00
401	33.300	30.62	0.00	0.00	0.00	6.10	10.66	0.00	10.66	0.00	1.28	0.12	0.00	1.40	0.00	16.27	0.00	0.	0.00
402	33.200	30.61	0.00	0.00	0.00	5.99	10.65	0.00	10.65	0.00	1.28	0.12	0.00	1.40	0.00	15.37	0.00	0.	0.00

403	33.100	30.60	0.00	0.00	0.00	5.88	10.65	0.00	10.65	0.00	1.27	0.12	0.00	1.39	0.00	14.47	0.00	0.	0.00
404	33.000	30.58	0.00	0.00	0.00	5.76	10.65	0.00	10.65	0.00	1.27	0.11	0.00	1.39	0.00	13.56	0.00	0.	0.00
405	32.900	30.57	0.00	0.00	0.00	5.64	10.64	0.00	10.64	0.00	1.27	0.11	0.00	1.38	0.00	12.66	0.00	0.	0.00
406	32.800	30.56	0.00	0.00	0.00	5.52	10.64	0.00	10.64	0.00	1.27	0.11	0.00	1.38	0.00	11.75	0.00	0.	0.00
407	32.700	30.55	0.00	0.00	0.00	5.40	10.64	0.00	10.64	0.00	1.26	0.11	0.00	1.37	0.00	10.85	0.00	0.	0.00
408	32.600	30.54	0.00	0.00	0.00	5.27	10.64	0.00	10.64	0.00	1.26	0.11	0.00	1.37	0.00	9.95	0.00	0.	0.00
409	32.500	30.52	0.00	0.00	0.00	5.14	10.63	0.00	10.63	0.00	1.26	0.11	0.00	1.36	0.00	9.04	0.00	0.	0.00
410	32.400	30.51	0.00	0.00	0.00	5.01	10.63	0.00	10.63	0.00	1.25	0.10	0.00	1.36	0.00	8.14	0.00	0.	0.00
411	32.300	30.50	0.00	0.00	0.00	4.88	10.63	0.00	10.63	0.00	1.25	0.10	0.00	1.35	0.00	7.23	0.00	0.	0.00
412	32.200	30.49	0.00	0.00	0.00	4.74	10.63	0.00	10.63	0.00	1.25	0.10	0.00	1.35	0.00	6.33	0.00	0.	0.00
413	32.100	30.47	0.00	0.00	0.00	4.60	10.63	0.00	10.63	0.00	1.24	0.10	0.00	1.35	0.00	5.42	0.00	0.	0.00
414	32.000	30.46	0.00	0.00	0.00	4.46	10.63	0.00	10.63	0.00	1.24	0.10	0.00	1.34	0.00	4.52	0.00	0.	0.00
415	31.900	30.45	0.00	0.00	0.00	4.32	10.62	0.00	10.62	0.00	1.24	0.10	0.00	1.34	0.00	3.62	0.00	0.	0.00
416	31.800	30.44	0.00	0.00	0.00	4.17	10.62	0.00	10.62	0.00	1.24	0.10	0.00	1.33	0.00	2.71	0.00	0.	0.00
417	31.700	30.42	0.00	0.00	0.00	4.02	10.62	0.00	10.62	0.00	1.23	0.10	0.00	1.33	0.00	1.81	0.00	0.	0.00
418	31.600	30.41	0.00	0.00	0.00	3.87	10.62	0.00	10.62	0.00	1.23	0.10	0.00	1.33	0.00	0.90	0.00	0.	0.00
419	31.500	30.40	0.00	0.00	0.00	3.72	10.62	0.00	10.62	0.00	1.23	0.10	0.00	1.32	0.00	0.00	0.00	0.	0.00

FINAL REPORT Bayou Cholpe #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 10 Intracoastal Waterway #2 Calibration Simulation for Upper Terrebonne model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
554	UPR RCH	1.57969	30.40	0.00	0.00	0.00	3.72	10.62	0.00	10.62	0.00	1.23	0.10	0.00	0.00	0.00	0.00	0.00
554	TRIB	7.56386	30.40	0.00	0.00	0.00	5.39	1.76	0.00	1.76	0.00	1.18	0.07	1.84	0.00	0.00	0.00	0.00
566	WSTLD	0.00001	28.00	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.10	1.50	10.00	0.00	0.00	0.00	0.00
623	WSTLD	0.00010	31.50	0.00	0.00	0.00	6.30	3.00	0.00	3.00	0.00	1.20	0.10	1.50	0.00	0.00	0.00	0.00
656	WSTLD	0.00010	31.50	0.00	0.00	0.00	6.30	3.00	0.00	3.00	0.00	1.20	0.10	1.50	0.00	0.00	0.00	0.00
666	WSTLD	0.00455	28.00	0.00	0.00	0.00	5.00	15.20	0.00	15.20	0.00	1.10	1.50	10.00	0.00	0.00	0.00	0.00
674	WSTLD	0.00010	31.50	0.00	0.00	0.00	6.30	3.00	0.00	3.00	0.00	1.20	0.10	1.50	0.00	0.00	0.00	0.00
678	WSTLD	1.35901	29.00	0.00	0.00	0.00	2.00	3.50	0.00	3.50	0.00	1.10	0.03	0.00	0.00	0.00	0.00	0.00
703	WSTLD	0.00004	28.00	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.10	1.50	1.70	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m≥/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m≥	VOLUME AREA m≤	VOLUME AREA m≤	PRISM m≥	SURFACE VELO m/s	X-SECT VELO m≤/s	TIDAL VELO m/s	TIDAL	DISPRSN	MEAN
554	31.50	31.40	9.14355	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040		
555	31.40	31.30	9.14355	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040		
556	31.30	31.20	9.14355	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040		
557	31.20	31.10	9.14355	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040		
558	31.10	31.00	9.14355	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040		
559	31.00	30.90	9.14355	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040		
560	30.90	30.80	9.14355	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040		
561	30.80	30.70	9.14355	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040		
562	30.70	30.60	9.14355	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040		
563	30.60	30.50	9.14355	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040		
564	30.50	30.40	9.14355	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040		

565	30.40	30.30	9.14355	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
566	30.30	30.20	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
567	30.20	30.10	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
568	30.10	30.00	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
569	30.00	29.90	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
570	29.90	29.80	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
571	29.80	29.70	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
572	29.70	29.60	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
573	29.60	29.50	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
574	29.50	29.40	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
575	29.40	29.30	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
576	29.30	29.20	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
577	29.20	29.10	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
578	29.10	29.00	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
579	29.00	28.90	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
580	28.90	28.80	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
581	28.80	28.70	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
582	28.70	28.60	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
583	28.60	28.50	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
584	28.50	28.40	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
585	28.40	28.30	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
586	28.30	28.20	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
587	28.20	28.10	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
588	28.10	28.00	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
589	28.00	27.90	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
590	27.90	27.80	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
591	27.80	27.70	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
592	27.70	27.60	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
593	27.60	27.50	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
594	27.50	27.40	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
595	27.40	27.30	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
596	27.30	27.20	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
597	27.20	27.10	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
598	27.10	27.00	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
599	27.00	26.90	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
600	26.90	26.80	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
601	26.80	26.70	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
602	26.70	26.60	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
603	26.60	26.50	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
604	26.50	26.40	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
605	26.40	26.30	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
606	26.30	26.20	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
607	26.20	26.10	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
608	26.10	26.00	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
609	26.00	25.90	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
610	25.90	25.80	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
611	25.80	25.70	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
612	25.70	25.60	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
613	25.60	25.50	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
614	25.50	25.40	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040

615	25.40	25.30	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
616	25.30	25.20	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
617	25.20	25.10	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
618	25.10	25.00	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
619	25.00	24.90	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
620	24.90	24.80	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
621	24.80	24.70	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
622	24.70	24.60	9.14356	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
623	24.60	24.50	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
624	24.50	24.40	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
625	24.40	24.30	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
626	24.30	24.20	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
627	24.20	24.10	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
628	24.10	24.00	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
629	24.00	23.90	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
630	23.90	23.80	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
631	23.80	23.70	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
632	23.70	23.60	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
633	23.60	23.50	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
634	23.50	23.40	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
635	23.40	23.30	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
636	23.30	23.20	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
637	23.20	23.10	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
638	23.10	23.00	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
639	23.00	22.90	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
640	22.90	22.80	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
641	22.80	22.70	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
642	22.70	22.60	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
643	22.60	22.50	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
644	22.50	22.40	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
645	22.40	22.30	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
646	22.30	22.20	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
647	22.20	22.10	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
648	22.10	22.00	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
649	22.00	21.90	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
650	21.90	21.80	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
651	21.80	21.70	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
652	21.70	21.60	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
653	21.60	21.50	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
654	21.50	21.40	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
655	21.40	21.30	9.14366	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
656	21.30	21.20	9.14376	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
657	21.20	21.10	9.14376	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
658	21.10	21.00	9.14376	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
659	21.00	20.90	9.14376	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
660	20.90	20.80	9.14376	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
661	20.80	20.70	9.14376	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
662	20.70	20.60	9.14376	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
663	20.60	20.50	9.14376	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
664	20.50	20.40	9.14376	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040

665	20.40	20.30	9.14376	7.4	0.04010	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
666	20.30	20.20	9.14831	7.4	0.04012	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
667	20.20	20.10	9.14831	7.4	0.04012	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
668	20.10	20.00	9.14831	7.4	0.04012	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
669	20.00	19.90	9.14831	7.4	0.04012	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
670	19.90	19.80	9.14831	7.4	0.04012	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
671	19.80	19.70	9.14831	7.4	0.04012	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
672	19.70	19.60	9.14831	7.4	0.04012	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
673	19.60	19.50	9.14831	7.4	0.04012	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
674	19.50	19.40	9.14841	7.4	0.04012	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
675	19.40	19.30	9.14841	7.4	0.04012	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
676	19.30	19.20	9.14841	7.4	0.04012	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
677	19.20	19.10	9.14841	7.4	0.04012	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.040
678	19.10	19.00	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
679	19.00	18.90	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
680	18.90	18.80	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
681	18.80	18.70	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
682	18.70	18.60	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
683	18.60	18.50	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
684	18.50	18.40	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
685	18.40	18.30	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
686	18.30	18.20	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
687	18.20	18.10	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
688	18.10	18.00	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
689	18.00	17.90	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
690	17.90	17.80	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
691	17.80	17.70	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
692	17.70	17.60	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
693	17.60	17.50	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
694	17.50	17.40	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
695	17.40	17.30	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
696	17.30	17.20	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
697	17.20	17.10	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
698	17.10	17.00	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
699	17.00	16.90	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
700	16.90	16.80	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
701	16.80	16.70	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
702	16.70	16.60	10.50742	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
703	16.60	16.50	10.50746	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
704	16.50	16.40	10.50746	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
705	16.40	16.30	10.50746	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
706	16.30	16.20	10.50746	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
707	16.20	16.10	10.50746	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
708	16.10	16.00	10.50746	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046
709	16.00	15.90	10.50746	19.4	0.04609	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.046

TOT				4.38		3556800.00	1185600.00
AVG			0.0412		3.00	76.00	228.00
CUM				18.63			

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	REAER DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT
	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		
554	31.400	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
555	31.300	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
556	31.200	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
557	31.100	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
558	31.000	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
559	30.900	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
560	30.800	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
561	30.700	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
562	30.600	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
563	30.500	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
564	30.400	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
565	30.300	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
566	30.200	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
567	30.100	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
568	30.000	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
569	29.900	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
570	29.800	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
571	29.700	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
572	29.600	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
573	29.500	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
574	29.400	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48	0.02	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
575	29.300	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
576	29.200	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
577	29.100	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
578	29.000	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
579	28.900	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
580	28.800	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
581	28.700	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
582	28.600	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
583	28.500	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
584	28.400	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
585	28.300	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
586	28.200	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
587	28.100	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
588	28.000	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	2.46	0.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
589	27.900	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
590	27.800	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
591	27.700	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
592	27.600	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
593	27.500	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
594	27.400	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
595	27.300	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
596	27.200	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	2.46	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
597	27.100	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
598	27.000	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

599	26.900	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600	26.800	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
601	26.700	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
602	26.600	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
603	26.500	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	2.45	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
604	26.400	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	2.45	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
605	26.300	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	2.45	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
606	26.200	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
607	26.100	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
608	26.000	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
609	25.900	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
610	25.800	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
611	25.700	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
612	25.600	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
613	25.500	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
614	25.400	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	2.44	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
615	25.300	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	2.43	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
616	25.200	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	2.43	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
617	25.100	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	2.43	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
618	25.000	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	2.43	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
619	24.900	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	2.43	0.02	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
620	24.800	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	2.43	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
621	24.700	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	2.43	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
622	24.600	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.43	2.43	2.43	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
623	24.500	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.43	2.43	2.43	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
624	24.400	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
625	24.300	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
626	24.200	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
627	24.100	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
628	24.000	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
629	23.900	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
630	23.800	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
631	23.700	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
632	23.600	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
633	23.500	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	2.42	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
634	23.400	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
635	23.300	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
636	23.200	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
637	23.100	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
638	23.000	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
639	22.900	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
640	22.800	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
641	22.700	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
642	22.600	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
643	22.500	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
644	22.400	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
645	22.300	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
646	22.200	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
647	22.100	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
648	22.000	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

649	21.900	7.59	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
650	21.800	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
651	21.700	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	2.40	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
652	21.600	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	2.39	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
653	21.500	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	2.39	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
654	21.400	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	2.39	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
655	21.300	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	2.39	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
656	21.200	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	2.39	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
657	21.100	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	2.39	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
658	21.000	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	2.39	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
659	20.900	7.60	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	2.39	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
660	20.800	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	2.39	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
661	20.700	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	2.39	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
662	20.600	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
663	20.500	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
664	20.400	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
665	20.300	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
666	20.200	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
667	20.100	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
668	20.000	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
669	19.900	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
670	19.800	7.61	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	2.38	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
671	19.700	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
672	19.600	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
673	19.500	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
674	19.400	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
675	19.300	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
676	19.200	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
677	19.100	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	2.37	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
678	19.000	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	2.37	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
679	18.900	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	2.37	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
680	18.800	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	2.37	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
681	18.700	7.62	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
682	18.600	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
683	18.500	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
684	18.400	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
685	18.300	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
686	18.200	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
687	18.100	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
688	18.000	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
689	17.900	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
690	17.800	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
691	17.700	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
692	17.600	7.63	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
693	17.500	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
694	17.400	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
695	17.300	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
696	17.200	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
697	17.100	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
698	17.000	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

699	16.900	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700	16.800	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
701	16.700	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
702	16.600	7.64	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
703	16.500	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
704	16.400	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
705	16.300	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
706	16.200	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
707	16.100	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
708	16.000	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
709	15.900	7.65	0.28	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.23 0.13 0.00 0.00 0.00 0.00 0.00 1.30 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO	COLI #/100mL	NCM
554	31.400	30.39	0.00	0.00	0.00	5.08	3.28	0.00	3.28	0.00	1.20	0.08	1.48	2.75	0.00	0.00	0.00	0.	0.00
555	31.300	30.39	0.00	0.00	0.00	5.05	3.27	0.00	3.27	0.00	1.20	0.08	1.48	2.75	0.00	0.00	0.00	0.	0.00
556	31.200	30.38	0.00	0.00	0.00	5.02	3.26	0.00	3.26	0.00	1.20	0.08	1.48	2.76	0.00	0.00	0.00	0.	0.00
557	31.100	30.37	0.00	0.00	0.00	4.99	3.26	0.00	3.26	0.00	1.21	0.08	1.48	2.76	0.00	0.00	0.00	0.	0.00
558	31.000	30.36	0.00	0.00	0.00	4.97	3.25	0.00	3.25	0.00	1.21	0.08	1.48	2.77	0.00	0.00	0.00	0.	0.00
559	30.900	30.36	0.00	0.00	0.00	4.94	3.24	0.00	3.24	0.00	1.22	0.08	1.48	2.77	0.00	0.00	0.00	0.	0.00
560	30.800	30.35	0.00	0.00	0.00	4.91	3.23	0.00	3.23	0.00	1.22	0.08	1.48	2.78	0.00	0.00	0.00	0.	0.00
561	30.700	30.34	0.00	0.00	0.00	4.89	3.22	0.00	3.22	0.00	1.22	0.08	1.48	2.78	0.00	0.00	0.00	0.	0.00
562	30.600	30.34	0.00	0.00	0.00	4.86	3.22	0.00	3.22	0.00	1.23	0.08	1.48	2.79	0.00	0.00	0.00	0.	0.00
563	30.500	30.33	0.00	0.00	0.00	4.84	3.21	0.00	3.21	0.00	1.23	0.08	1.48	2.79	0.00	0.00	0.00	0.	0.00
564	30.400	30.32	0.00	0.00	0.00	4.81	3.20	0.00	3.20	0.00	1.24	0.08	1.48	2.79	0.00	0.00	0.00	0.	0.00
565	30.300	30.32	0.00	0.00	0.00	4.79	3.19	0.00	3.19	0.00	1.24	0.08	1.49	2.80	0.00	0.00	0.00	0.	0.00
566	30.200	30.31	0.00	0.00	0.00	4.76	3.18	0.00	3.18	0.00	1.24	0.08	1.49	2.80	0.00	0.00	0.00	0.	0.00
567	30.100	30.30	0.00	0.00	0.00	4.74	3.18	0.00	3.18	0.00	1.25	0.08	1.49	2.81	0.00	0.00	0.00	0.	0.00
568	30.000	30.29	0.00	0.00	0.00	4.71	3.17	0.00	3.17	0.00	1.25	0.08	1.49	2.81	0.00	0.00	0.00	0.	0.00
569	29.900	30.29	0.00	0.00	0.00	4.69	3.16	0.00	3.16	0.00	1.26	0.08	1.49	2.82	0.00	0.00	0.00	0.	0.00
570	29.800	30.28	0.00	0.00	0.00	4.67	3.15	0.00	3.15	0.00	1.26	0.08	1.49	2.82	0.00	0.00	0.00	0.	0.00
571	29.700	30.27	0.00	0.00	0.00	4.64	3.15	0.00	3.15	0.00	1.26	0.08	1.49	2.83	0.00	0.00	0.00	0.	0.00
572	29.600	30.27	0.00	0.00	0.00	4.62	3.14	0.00	3.14	0.00	1.27	0.08	1.49	2.83	0.00	0.00	0.00	0.	0.00
573	29.500	30.26	0.00	0.00	0.00	4.60	3.13	0.00	3.13	0.00	1.27	0.08	1.49	2.84	0.00	0.00	0.00	0.	0.00
574	29.400	30.25	0.00	0.00	0.00	4.58	3.12	0.00	3.12	0.00	1.28	0.08	1.49	2.84	0.00	0.00	0.00	0.	0.00
575	29.300	30.24	0.00	0.00	0.00	4.55	3.12	0.00	3.12	0.00	1.28	0.08	1.49	2.85	0.00	0.00	0.00	0.	0.00
576	29.200	30.24	0.00	0.00	0.00	4.53	3.11	0.00	3.11	0.00	1.28	0.08	1.50	2.85	0.00	0.00	0.00	0.	0.00
577	29.100	30.23	0.00	0.00	0.00	4.51	3.10	0.00	3.10	0.00	1.29	0.08	1.50	2.86	0.00	0.00	0.00	0.	0.00
578	29.000	30.22	0.00	0.00	0.00	4.49	3.09	0.00	3.09	0.00	1.29	0.08	1.50	2.86	0.00	0.00	0.00	0.	0.00
579	28.900	30.22	0.00	0.00	0.00	4.47	3.09	0.00	3.09	0.00	1.29	0.08	1.50	2.87	0.00	0.00	0.00	0.	0.00
580	28.800	30.21	0.00	0.00	0.00	4.45	3.08	0.00	3.08	0.00	1.30	0.08	1.50	2.87	0.00	0.00	0.00	0.	0.00
581	28.700	30.20	0.00	0.00	0.00	4.43	3.07	0.00	3.07	0.00	1.30	0.08	1.50	2.88	0.00	0.00	0.00	0.	0.00
582	28.600	30.20	0.00	0.00	0.00	4.40	3.07	0.00	3.07	0.00	1.31	0.08	1.50	2.88	0.00	0.00	0.00	0.	0.00
583	28.500	30.19	0.00	0.00	0.00	4.38	3.06	0.00	3.06	0.00	1.31	0.08	1.50	2.89	0.00	0.00	0.00	0.	0.00

584	28.400	30.18	0.00	0.00	0.00	4.36	3.05	0.00	3.05	0.00	1.31	0.08	1.50	2.89	0.00	0.00	0.00	0.	0.00
585	28.300	30.17	0.00	0.00	0.00	4.34	3.05	0.00	3.05	0.00	1.32	0.08	1.50	2.90	0.00	0.00	0.00	0.	0.00
586	28.200	30.17	0.00	0.00	0.00	4.33	3.04	0.00	3.04	0.00	1.32	0.08	1.50	2.90	0.00	0.00	0.00	0.	0.00
587	28.100	30.16	0.00	0.00	0.00	4.31	3.03	0.00	3.03	0.00	1.33	0.08	1.50	2.91	0.00	0.00	0.00	0.	0.00
588	28.000	30.15	0.00	0.00	0.00	4.29	3.03	0.00	3.03	0.00	1.33	0.08	1.51	2.91	0.00	0.00	0.00	0.	0.00
589	27.900	30.15	0.00	0.00	0.00	4.27	3.02	0.00	3.02	0.00	1.33	0.08	1.51	2.92	0.00	0.00	0.00	0.	0.00
590	27.800	30.14	0.00	0.00	0.00	4.25	3.01	0.00	3.01	0.00	1.34	0.08	1.51	2.92	0.00	0.00	0.00	0.	0.00
591	27.700	30.13	0.00	0.00	0.00	4.23	3.01	0.00	3.01	0.00	1.34	0.08	1.51	2.93	0.00	0.00	0.00	0.	0.00
592	27.600	30.12	0.00	0.00	0.00	4.21	3.00	0.00	3.00	0.00	1.35	0.08	1.51	2.93	0.00	0.00	0.00	0.	0.00
593	27.500	30.12	0.00	0.00	0.00	4.19	2.99	0.00	2.99	0.00	1.35	0.08	1.51	2.94	0.00	0.00	0.00	0.	0.00
594	27.400	30.11	0.00	0.00	0.00	4.18	2.99	0.00	2.99	0.00	1.35	0.08	1.51	2.94	0.00	0.00	0.00	0.	0.00
595	27.300	30.10	0.00	0.00	0.00	4.16	2.98	0.00	2.98	0.00	1.36	0.08	1.51	2.95	0.00	0.00	0.00	0.	0.00
596	27.200	30.10	0.00	0.00	0.00	4.14	2.97	0.00	2.97	0.00	1.36	0.08	1.51	2.95	0.00	0.00	0.00	0.	0.00
597	27.100	30.09	0.00	0.00	0.00	4.12	2.97	0.00	2.97	0.00	1.37	0.08	1.51	2.96	0.00	0.00	0.00	0.	0.00
598	27.000	30.08	0.00	0.00	0.00	4.11	2.96	0.00	2.96	0.00	1.37	0.08	1.51	2.96	0.00	0.00	0.00	0.	0.00
599	26.900	30.08	0.00	0.00	0.00	4.09	2.95	0.00	2.95	0.00	1.37	0.08	1.52	2.97	0.00	0.00	0.00	0.	0.00
600	26.800	30.07	0.00	0.00	0.00	4.07	2.95	0.00	2.95	0.00	1.38	0.08	1.52	2.97	0.00	0.00	0.00	0.	0.00
601	26.700	30.06	0.00	0.00	0.00	4.06	2.94	0.00	2.94	0.00	1.38	0.08	1.52	2.98	0.00	0.00	0.00	0.	0.00
602	26.600	30.05	0.00	0.00	0.00	4.04	2.94	0.00	2.94	0.00	1.39	0.08	1.52	2.98	0.00	0.00	0.00	0.	0.00
603	26.500	30.05	0.00	0.00	0.00	4.02	2.93	0.00	2.93	0.00	1.39	0.08	1.52	2.98	0.00	0.00	0.00	0.	0.00
604	26.400	30.04	0.00	0.00	0.00	4.01	2.92	0.00	2.92	0.00	1.39	0.08	1.52	2.99	0.00	0.00	0.00	0.	0.00
605	26.300	30.03	0.00	0.00	0.00	3.99	2.92	0.00	2.92	0.00	1.40	0.08	1.52	2.99	0.00	0.00	0.00	0.	0.00
606	26.200	30.03	0.00	0.00	0.00	3.98	2.91	0.00	2.91	0.00	1.40	0.08	1.52	3.00	0.00	0.00	0.00	0.	0.00
607	26.100	30.02	0.00	0.00	0.00	3.96	2.91	0.00	2.91	0.00	1.40	0.08	1.52	3.00	0.00	0.00	0.00	0.	0.00
608	26.000	30.01	0.00	0.00	0.00	3.95	2.90	0.00	2.90	0.00	1.41	0.08	1.52	3.01	0.00	0.00	0.00	0.	0.00
609	25.900	30.01	0.00	0.00	0.00	3.93	2.89	0.00	2.89	0.00	1.41	0.08	1.52	3.01	0.00	0.00	0.00	0.	0.00
610	25.800	30.00	0.00	0.00	0.00	3.92	2.89	0.00	2.89	0.00	1.42	0.08	1.52	3.02	0.00	0.00	0.00	0.	0.00
611	25.700	29.99	0.00	0.00	0.00	3.90	2.88	0.00	2.88	0.00	1.42	0.08	1.53	3.02	0.00	0.00	0.00	0.	0.00
612	25.600	29.98	0.00	0.00	0.00	3.89	2.88	0.00	2.88	0.00	1.42	0.08	1.53	3.03	0.00	0.00	0.00	0.	0.00
613	25.500	29.98	0.00	0.00	0.00	3.87	2.87	0.00	2.87	0.00	1.43	0.08	1.53	3.03	0.00	0.00	0.00	0.	0.00
614	25.400	29.97	0.00	0.00	0.00	3.86	2.87	0.00	2.87	0.00	1.43	0.08	1.53	3.04	0.00	0.00	0.00	0.	0.00
615	25.300	29.96	0.00	0.00	0.00	3.85	2.86	0.00	2.86	0.00	1.44	0.08	1.53	3.04	0.00	0.00	0.00	0.	0.00
616	25.200	29.96	0.00	0.00	0.00	3.83	2.85	0.00	2.85	0.00	1.44	0.08	1.53	3.05	0.00	0.00	0.00	0.	0.00
617	25.100	29.95	0.00	0.00	0.00	3.82	2.85	0.00	2.85	0.00	1.44	0.08	1.53	3.05	0.00	0.00	0.00	0.	0.00
618	25.000	29.94	0.00	0.00	0.00	3.80	2.84	0.00	2.84	0.00	1.45	0.08	1.53	3.06	0.00	0.00	0.00	0.	0.00
619	24.900	29.93	0.00	0.00	0.00	3.79	2.84	0.00	2.84	0.00	1.45	0.08	1.53	3.06	0.00	0.00	0.00	0.	0.00
620	24.800	29.93	0.00	0.00	0.00	3.78	2.83	0.00	2.83	0.00	1.45	0.08	1.53	3.07	0.00	0.00	0.00	0.	0.00
621	24.700	29.92	0.00	0.00	0.00	3.76	2.83	0.00	2.83	0.00	1.46	0.08	1.53	3.07	0.00	0.00	0.00	0.	0.00
622	24.600	29.91	0.00	0.00	0.00	3.75	2.82	0.00	2.82	0.00	1.46	0.08	1.53	3.08	0.00	0.00	0.00	0.	0.00
623	24.500	29.91	0.00	0.00	0.00	3.74	2.82	0.00	2.82	0.00	1.47	0.08	1.54	3.08	0.00	0.00	0.00	0.	0.00
624	24.400	29.90	0.00	0.00	0.00	3.73	2.81	0.00	2.81	0.00	1.47	0.08	1.54	3.09	0.00	0.00	0.00	0.	0.00
625	24.300	29.89	0.00	0.00	0.00	3.71	2.81	0.00	2.81	0.00	1.47	0.08	1.54	3.09	0.00	0.00	0.00	0.	0.00
626	24.200	29.89	0.00	0.00	0.00	3.70	2.80	0.00	2.80	0.00	1.48	0.08	1.54	3.10	0.00	0.00	0.00	0.	0.00
627	24.100	29.88	0.00	0.00	0.00	3.69	2.80	0.00	2.80	0.00	1.48	0.08	1.54	3.10	0.00	0.00	0.00	0.	0.00
628	24.000	29.87	0.00	0.00	0.00	3.68	2.79	0.00	2.79	0.00	1.49	0.08	1.54	3.11	0.00	0.00	0.00	0.	0.00
629	23.900	29.86	0.00	0.00	0.00	3.67	2.79	0.00	2.79	0.00	1.49	0.08	1.54	3.11	0.00	0.00	0.00	0.	0.00
630	23.800	29.86	0.00	0.00	0.00	3.65	2.78	0.00	2.78	0.00	1.49	0.08	1.54	3.12	0.00	0.00	0.00	0.	0.00
631	23.700	29.85	0.00	0.00	0.00	3.64	2.78	0.00	2.78	0.00	1.50	0.08	1.54	3.12	0.00	0.00	0.00	0.	0.00
632	23.600	29.84	0.00	0.00	0.00	3.63	2.77	0.00	2.77	0.00	1.50	0.08	1.54	3.13	0.00	0.00	0.00	0.	0.00
633	23.500	29.84	0.00	0.00	0.00	3.62	2.77	0.00	2.77	0.00	1.50	0.08	1.54	3.13	0.00	0.00	0.00	0.	0.00

634	23.400	29.83	0.00	0.00	0.00	3.61	2.76	0.00	2.76	0.00	1.51	0.08	1.55	3.14	0.00	0.00	0.00	0.	0.00
635	23.300	29.82	0.00	0.00	0.00	3.60	2.76	0.00	2.76	0.00	1.51	0.08	1.55	3.14	0.00	0.00	0.00	0.	0.00
636	23.200	29.81	0.00	0.00	0.00	3.59	2.75	0.00	2.75	0.00	1.52	0.08	1.55	3.15	0.00	0.00	0.00	0.	0.00
637	23.100	29.81	0.00	0.00	0.00	3.58	2.75	0.00	2.75	0.00	1.52	0.08	1.55	3.15	0.00	0.00	0.00	0.	0.00
638	23.000	29.80	0.00	0.00	0.00	3.56	2.74	0.00	2.74	0.00	1.52	0.08	1.55	3.16	0.00	0.00	0.00	0.	0.00
639	22.900	29.79	0.00	0.00	0.00	3.55	2.74	0.00	2.74	0.00	1.53	0.08	1.55	3.16	0.00	0.00	0.00	0.	0.00
640	22.800	29.79	0.00	0.00	0.00	3.54	2.73	0.00	2.73	0.00	1.53	0.08	1.55	3.16	0.00	0.00	0.00	0.	0.00
641	22.700	29.78	0.00	0.00	0.00	3.53	2.73	0.00	2.73	0.00	1.53	0.08	1.55	3.17	0.00	0.00	0.00	0.	0.00
642	22.600	29.77	0.00	0.00	0.00	3.52	2.72	0.00	2.72	0.00	1.54	0.08	1.55	3.17	0.00	0.00	0.00	0.	0.00
643	22.500	29.77	0.00	0.00	0.00	3.51	2.72	0.00	2.72	0.00	1.54	0.08	1.55	3.18	0.00	0.00	0.00	0.	0.00
644	22.400	29.76	0.00	0.00	0.00	3.50	2.71	0.00	2.71	0.00	1.55	0.08	1.55	3.18	0.00	0.00	0.00	0.	0.00
645	22.300	29.75	0.00	0.00	0.00	3.49	2.71	0.00	2.71	0.00	1.55	0.08	1.55	3.19	0.00	0.00	0.00	0.	0.00
646	22.200	29.74	0.00	0.00	0.00	3.48	2.70	0.00	2.70	0.00	1.55	0.08	1.56	3.19	0.00	0.00	0.00	0.	0.00
647	22.100	29.74	0.00	0.00	0.00	3.47	2.70	0.00	2.70	0.00	1.56	0.08	1.56	3.20	0.00	0.00	0.00	0.	0.00
648	22.000	29.73	0.00	0.00	0.00	3.47	2.70	0.00	2.70	0.00	1.56	0.09	1.56	3.20	0.00	0.00	0.00	0.	0.00
649	21.900	29.72	0.00	0.00	0.00	3.46	2.69	0.00	2.69	0.00	1.57	0.09	1.56	3.21	0.00	0.00	0.00	0.	0.00
650	21.800	29.72	0.00	0.00	0.00	3.45	2.69	0.00	2.69	0.00	1.57	0.09	1.56	3.21	0.00	0.00	0.00	0.	0.00
651	21.700	29.71	0.00	0.00	0.00	3.44	2.68	0.00	2.68	0.00	1.57	0.09	1.56	3.22	0.00	0.00	0.00	0.	0.00
652	21.600	29.70	0.00	0.00	0.00	3.43	2.68	0.00	2.68	0.00	1.58	0.09	1.56	3.22	0.00	0.00	0.00	0.	0.00
653	21.500	29.69	0.00	0.00	0.00	3.42	2.67	0.00	2.67	0.00	1.58	0.09	1.56	3.23	0.00	0.00	0.00	0.	0.00
654	21.400	29.69	0.00	0.00	0.00	3.41	2.67	0.00	2.67	0.00	1.58	0.09	1.56	3.23	0.00	0.00	0.00	0.	0.00
655	21.300	29.68	0.00	0.00	0.00	3.40	2.66	0.00	2.66	0.00	1.59	0.09	1.56	3.24	0.00	0.00	0.00	0.	0.00
656	21.200	29.67	0.00	0.00	0.00	3.39	2.66	0.00	2.66	0.00	1.59	0.09	1.56	3.24	0.00	0.00	0.00	0.	0.00
657	21.100	29.67	0.00	0.00	0.00	3.39	2.66	0.00	2.66	0.00	1.60	0.09	1.57	3.25	0.00	0.00	0.00	0.	0.00
658	21.000	29.66	0.00	0.00	0.00	3.38	2.65	0.00	2.65	0.00	1.60	0.09	1.57	3.25	0.00	0.00	0.00	0.	0.00
659	20.900	29.65	0.00	0.00	0.00	3.37	2.65	0.00	2.65	0.00	1.60	0.09	1.57	3.26	0.00	0.00	0.00	0.	0.00
660	20.800	29.65	0.00	0.00	0.00	3.36	2.64	0.00	2.64	0.00	1.61	0.09	1.57	3.26	0.00	0.00	0.00	0.	0.00
661	20.700	29.64	0.00	0.00	0.00	3.35	2.64	0.00	2.64	0.00	1.61	0.09	1.57	3.27	0.00	0.00	0.00	0.	0.00
662	20.600	29.63	0.00	0.00	0.00	3.34	2.64	0.00	2.64	0.00	1.61	0.09	1.57	3.27	0.00	0.00	0.00	0.	0.00
663	20.500	29.62	0.00	0.00	0.00	3.34	2.63	0.00	2.63	0.00	1.62	0.09	1.57	3.28	0.00	0.00	0.00	0.	0.00
664	20.400	29.62	0.00	0.00	0.00	3.33	2.63	0.00	2.63	0.00	1.62	0.09	1.57	3.28	0.00	0.00	0.00	0.	0.00
665	20.300	29.61	0.00	0.00	0.00	3.32	2.62	0.00	2.62	0.00	1.63	0.09	1.57	3.29	0.00	0.00	0.00	0.	0.00
666	20.200	29.60	0.00	0.00	0.00	3.32	2.63	0.00	2.63	0.00	1.63	0.09	1.58	3.30	0.00	0.00	0.00	0.	0.00
667	20.100	29.60	0.00	0.00	0.00	3.31	2.62	0.00	2.62	0.00	1.63	0.09	1.58	3.30	0.00	0.00	0.00	0.	0.00
668	20.000	29.59	0.00	0.00	0.00	3.30	2.62	0.00	2.62	0.00	1.64	0.09	1.58	3.31	0.00	0.00	0.00	0.	0.00
669	19.900	29.58	0.00	0.00	0.00	3.29	2.61	0.00	2.61	0.00	1.64	0.09	1.58	3.31	0.00	0.00	0.00	0.	0.00
670	19.800	29.57	0.00	0.00	0.00	3.29	2.61	0.00	2.61	0.00	1.64	0.09	1.58	3.32	0.00	0.00	0.00	0.	0.00
671	19.700	29.57	0.00	0.00	0.00	3.28	2.61	0.00	2.61	0.00	1.65	0.09	1.58	3.32	0.00	0.00	0.00	0.	0.00
672	19.600	29.56	0.00	0.00	0.00	3.27	2.60	0.00	2.60	0.00	1.65	0.09	1.58	3.33	0.00	0.00	0.00	0.	0.00
673	19.500	29.55	0.00	0.00	0.00	3.26	2.60	0.00	2.60	0.00	1.65	0.09	1.58	3.33	0.00	0.00	0.00	0.	0.00
674	19.400	29.55	0.00	0.00	0.00	3.26	2.60	0.00	2.60	0.00	1.66	0.09	1.59	3.34	0.00	0.00	0.00	0.	0.00
675	19.300	29.54	0.00	0.00	0.00	3.25	2.59	0.00	2.59	0.00	1.66	0.09	1.59	3.34	0.00	0.00	0.00	0.	0.00
676	19.200	29.53	0.00	0.00	0.00	3.24	2.59	0.00	2.59	0.00	1.67	0.09	1.59	3.34	0.00	0.00	0.00	0.	0.00
677	19.100	29.53	0.00	0.00	0.00	3.24	2.58	0.00	2.58	0.00	1.67	0.09	1.59	3.35	0.00	0.00	0.00	0.	0.00
678	19.000	29.52	0.00	0.00	0.00	3.07	2.70	0.00	2.70	0.00	1.60	0.08	1.38	3.07	0.00	0.00	0.00	0.	0.00
679	18.900	29.51	0.00	0.00	0.00	3.07	2.70	0.00	2.70	0.00	1.60	0.08	1.38	3.07	0.00	0.00	0.00	0.	0.00
680	18.800	29.50	0.00	0.00	0.00	3.06	2.69	0.00	2.69	0.00	1.61	0.09	1.38	3.08	0.00	0.00	0.00	0.	0.00
681	18.700	29.50	0.00	0.00	0.00	3.06	2.69	0.00	2.69	0.00	1.61	0.09	1.39	3.08	0.00	0.00	0.00	0.	0.00
682	18.600	29.49	0.00	0.00	0.00	3.05	2.68	0.00	2.68	0.00	1.61	0.09	1.39	3.08	0.00	0.00	0.00	0.	0.00
683	18.500	29.48	0.00	0.00	0.00	3.05	2.68	0.00	2.68	0.00	1.62	0.09	1.39	3.09	0.00	0.00	0.00	0.	0.00

684	18.400	29.48	0.00	0.00	0.00	3.05	2.68	0.00	2.68	0.00	1.62	0.09	1.39	3.09	0.00	0.00	0.00	0.	0.00
685	18.300	29.47	0.00	0.00	0.00	3.04	2.67	0.00	2.67	0.00	1.62	0.09	1.39	3.10	0.00	0.00	0.00	0.	0.00
686	18.200	29.46	0.00	0.00	0.00	3.04	2.67	0.00	2.67	0.00	1.63	0.09	1.39	3.10	0.00	0.00	0.00	0.	0.00
687	18.100	29.46	0.00	0.00	0.00	3.03	2.67	0.00	2.67	0.00	1.63	0.09	1.39	3.10	0.00	0.00	0.00	0.	0.00
688	18.000	29.45	0.00	0.00	0.00	3.03	2.66	0.00	2.66	0.00	1.63	0.09	1.39	3.11	0.00	0.00	0.00	0.	0.00
689	17.900	29.44	0.00	0.00	0.00	3.02	2.66	0.00	2.66	0.00	1.63	0.09	1.39	3.11	0.00	0.00	0.00	0.	0.00
690	17.800	29.43	0.00	0.00	0.00	3.02	2.66	0.00	2.66	0.00	1.64	0.09	1.39	3.12	0.00	0.00	0.00	0.	0.00
691	17.700	29.43	0.00	0.00	0.00	3.02	2.65	0.00	2.65	0.00	1.64	0.09	1.39	3.12	0.00	0.00	0.00	0.	0.00
692	17.600	29.42	0.00	0.00	0.00	3.01	2.65	0.00	2.65	0.00	1.64	0.09	1.39	3.13	0.00	0.00	0.00	0.	0.00
693	17.500	29.41	0.00	0.00	0.00	3.01	2.65	0.00	2.65	0.00	1.65	0.09	1.39	3.13	0.00	0.00	0.00	0.	0.00
694	17.400	29.41	0.00	0.00	0.00	3.00	2.64	0.00	2.64	0.00	1.65	0.09	1.39	3.13	0.00	0.00	0.00	0.	0.00
695	17.300	29.40	0.00	0.00	0.00	3.00	2.64	0.00	2.64	0.00	1.65	0.09	1.40	3.14	0.00	0.00	0.00	0.	0.00
696	17.200	29.39	0.00	0.00	0.00	3.00	2.64	0.00	2.64	0.00	1.66	0.09	1.40	3.14	0.00	0.00	0.00	0.	0.00
697	17.100	29.38	0.00	0.00	0.00	2.99	2.63	0.00	2.63	0.00	1.66	0.09	1.40	3.15	0.00	0.00	0.00	0.	0.00
698	17.000	29.38	0.00	0.00	0.00	2.99	2.63	0.00	2.63	0.00	1.66	0.09	1.40	3.15	0.00	0.00	0.00	0.	0.00
699	16.900	29.37	0.00	0.00	0.00	2.99	2.63	0.00	2.63	0.00	1.67	0.09	1.40	3.16	0.00	0.00	0.00	0.	0.00
700	16.800	29.36	0.00	0.00	0.00	2.98	2.62	0.00	2.62	0.00	1.67	0.09	1.40	3.16	0.00	0.00	0.00	0.	0.00
701	16.700	29.36	0.00	0.00	0.00	2.98	2.62	0.00	2.62	0.00	1.67	0.09	1.40	3.16	0.00	0.00	0.00	0.	0.00
702	16.600	29.35	0.00	0.00	0.00	2.98	2.62	0.00	2.62	0.00	1.68	0.09	1.40	3.17	0.00	0.00	0.00	0.	0.00
703	16.500	29.34	0.00	0.00	0.00	2.97	2.61	0.00	2.61	0.00	1.68	0.09	1.40	3.17	0.00	0.00	0.00	0.	0.00
704	16.400	29.34	0.00	0.00	0.00	2.97	2.61	0.00	2.61	0.00	1.68	0.09	1.40	3.18	0.00	0.00	0.00	0.	0.00
705	16.300	29.33	0.00	0.00	0.00	2.97	2.61	0.00	2.61	0.00	1.69	0.09	1.40	3.18	0.00	0.00	0.00	0.	0.00
706	16.200	29.32	0.00	0.00	0.00	2.96	2.60	0.00	2.60	0.00	1.69	0.09	1.40	3.19	0.00	0.00	0.00	0.	0.00
707	16.100	29.31	0.00	0.00	0.00	2.96	2.60	0.00	2.60	0.00	1.69	0.09	1.40	3.19	0.00	0.00	0.00	0.	0.00
708	16.000	29.31	0.00	0.00	0.00	2.96	2.60	0.00	2.60	0.00	1.70	0.09	1.41	3.19	0.00	0.00	0.00	0.	0.00
709	15.900	29.30	0.00	0.00	0.00	2.95	2.59	0.00	2.59	0.00	1.70	0.09	1.41	3.20	0.00	0.00	0.00	0.	0.00

FINAL REPORT Bayou Cholpe #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 12 Intracoastal Waterway #3 Calibration Simulation for Upper Terrebonne model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
829	UPR RCH	10.50746	29.30	0.00	0.00	0.00	2.95	2.59	0.00	2.59	0.00	1.70	0.09	1.41	0.00	0.00	0.00	0.00
829	TRIB	0.83995	29.30	0.00	0.00	0.00	2.57	25.55	0.00	25.55	0.00	1.41	0.15	1.37	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m≥/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m≥	VOLUME AREA m≤	AREA m≤	PRISM m≥	SURFACE VELO m/s	X-SECT VELO m≤/s	TIDAL VELO m/s	TIDAL	DISPRSN	MEAN
829	15.90	15.80	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044		
830	15.80	15.70	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044		
831	15.70	15.60	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044		
832	15.60	15.50	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044		
833	15.50	15.40	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044		
834	15.40	15.30	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044		
835	15.30	15.20	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044		
836	15.20	15.10	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044		
837	15.10	15.00	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044		

838	15.00	14.90	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
839	14.90	14.80	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
840	14.80	14.70	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
841	14.70	14.60	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
842	14.60	14.50	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
843	14.50	14.40	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
844	14.40	14.30	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
845	14.30	14.20	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
846	14.20	14.10	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
847	14.10	14.00	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
848	14.00	13.90	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
849	13.90	13.80	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
850	13.80	13.70	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
851	13.70	13.60	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
852	13.60	13.50	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
853	13.50	13.40	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
854	13.40	13.30	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
855	13.30	13.20	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
856	13.20	13.10	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
857	13.10	13.00	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
858	13.00	12.90	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
859	12.90	12.80	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
860	12.80	12.70	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
861	12.70	12.60	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
862	12.60	12.50	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
863	12.50	12.40	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
864	12.40	12.30	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
865	12.30	12.20	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
866	12.20	12.10	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
867	12.10	12.00	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
868	12.00	11.90	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
869	11.90	11.80	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
870	11.80	11.70	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
871	11.70	11.60	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
872	11.60	11.50	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
873	11.50	11.40	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
874	11.40	11.30	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
875	11.30	11.20	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
876	11.20	11.10	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
877	11.10	11.00	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
878	11.00	10.90	11.34741	18.6	0.04433	0.03	3.20	80.00	25600.00	8000.00	256.00	0.00	0.000	0.000	0.044
TOT				1.31				1280000.00	400000.00						
AVG					0.0443		3.20	80.00			256.00				
CUM				19.93											

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

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

829	15.800	7.65	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.26	1.26	1.26	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
830	15.700	7.65	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.26	1.26	1.26	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
831	15.600	7.64	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.26	1.26	1.26	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
832	15.500	7.64	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.26	1.26	1.26	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
833	15.400	7.64	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.26	1.26	1.26	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
834	15.300	7.64	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.26	1.26	1.26	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
835	15.200	7.64	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
836	15.100	7.63	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
837	15.000	7.63	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
838	14.900	7.63	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
839	14.800	7.63	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
840	14.700	7.63	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
841	14.600	7.62	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.27	1.27	1.27	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
842	14.500	7.62	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
843	14.400	7.62	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
844	14.300	7.62	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
845	14.200	7.61	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
846	14.100	7.61	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
847	14.000	7.61	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
848	13.900	7.61	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
849	13.800	7.61	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
850	13.700	7.60	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
851	13.600	7.60	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
852	13.500	7.60	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
853	13.400	7.60	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
854	13.300	7.60	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
855	13.200	7.59	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
856	13.100	7.59	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
857	13.000	7.59	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
858	12.900	7.59	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
859	12.800	7.59	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
860	12.700	7.58	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
861	12.600	7.58	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
862	12.500	7.58	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
863	12.400	7.58	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
864	12.300	7.57	0.26	0.31	0.00	0.00	0.00	0.00	0.00	1.30	1.30	1.30	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
865	12.200	7.57	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
866	12.100	7.57	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
867	12.000	7.57	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
868	11.900	7.57	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
869	11.800	7.56	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
870	11.700	7.56	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
871	11.600	7.56	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
872	11.500	7.56	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.31	1.31	1.31	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
873	11.400	7.56	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
874	11.300	7.55	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
875	11.200	7.55	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
876	11.100	7.55	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
877	11.000	7.55	0.26	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

878 10.900 7.55 0.26 0.32 0.00 0.00 0.00 0.00 0.00 1.32 1.32 1.32 0.02 0.00 0.33 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

AVG 20 DEG C RATE 0.22 0.20 0.00 0.00 0.00 0.00 0.00 0.70 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO	COLI #/100mL	NCM
829	15.800	29.32	0.00	0.00	0.00	2.91	4.26	0.00	4.26	0.00	1.68	0.10	1.40	3.18	0.00	0.00	0.00	0.	0.00
830	15.700	29.33	0.00	0.00	0.00	2.89	4.23	0.00	4.23	0.00	1.68	0.10	1.41	3.18	0.00	0.00	0.00	0.	0.00
831	15.600	29.35	0.00	0.00	0.00	2.88	4.19	0.00	4.19	0.00	1.68	0.10	1.41	3.18	0.00	0.00	0.00	0.	0.00
832	15.500	29.36	0.00	0.00	0.00	2.86	4.16	0.00	4.16	0.00	1.68	0.10	1.41	3.19	0.00	0.00	0.00	0.	0.00
833	15.400	29.38	0.00	0.00	0.00	2.85	4.12	0.00	4.12	0.00	1.68	0.10	1.41	3.19	0.00	0.00	0.00	0.	0.00
834	15.300	29.40	0.00	0.00	0.00	2.83	4.09	0.00	4.09	0.00	1.68	0.10	1.41	3.19	0.00	0.00	0.00	0.	0.00
835	15.200	29.41	0.00	0.00	0.00	2.82	4.06	0.00	4.06	0.00	1.68	0.10	1.41	3.19	0.00	0.00	0.00	0.	0.00
836	15.100	29.43	0.00	0.00	0.00	2.81	4.03	0.00	4.03	0.00	1.69	0.10	1.41	3.19	0.00	0.00	0.00	0.	0.00
837	15.000	29.44	0.00	0.00	0.00	2.79	3.99	0.00	3.99	0.00	1.69	0.10	1.41	3.20	0.00	0.00	0.00	0.	0.00
838	14.900	29.46	0.00	0.00	0.00	2.78	3.96	0.00	3.96	0.00	1.69	0.10	1.41	3.20	0.00	0.00	0.00	0.	0.00
839	14.800	29.48	0.00	0.00	0.00	2.77	3.93	0.00	3.93	0.00	1.69	0.10	1.41	3.20	0.00	0.00	0.00	0.	0.00
840	14.700	29.49	0.00	0.00	0.00	2.76	3.90	0.00	3.90	0.00	1.69	0.10	1.41	3.20	0.00	0.00	0.00	0.	0.00
841	14.600	29.51	0.00	0.00	0.00	2.74	3.87	0.00	3.87	0.00	1.69	0.10	1.41	3.20	0.00	0.00	0.00	0.	0.00
842	14.500	29.52	0.00	0.00	0.00	2.73	3.84	0.00	3.84	0.00	1.69	0.10	1.42	3.21	0.00	0.00	0.00	0.	0.00
843	14.400	29.54	0.00	0.00	0.00	2.72	3.81	0.00	3.81	0.00	1.69	0.10	1.42	3.21	0.00	0.00	0.00	0.	0.00
844	14.300	29.56	0.00	0.00	0.00	2.71	3.78	0.00	3.78	0.00	1.69	0.10	1.42	3.21	0.00	0.00	0.00	0.	0.00
845	14.200	29.57	0.00	0.00	0.00	2.70	3.75	0.00	3.75	0.00	1.69	0.10	1.42	3.21	0.00	0.00	0.00	0.	0.00
846	14.100	29.59	0.00	0.00	0.00	2.69	3.72	0.00	3.72	0.00	1.70	0.10	1.42	3.21	0.00	0.00	0.00	0.	0.00
847	14.000	29.60	0.00	0.00	0.00	2.68	3.69	0.00	3.69	0.00	1.70	0.10	1.42	3.22	0.00	0.00	0.00	0.	0.00
848	13.900	29.62	0.00	0.00	0.00	2.67	3.66	0.00	3.66	0.00	1.70	0.10	1.42	3.22	0.00	0.00	0.00	0.	0.00
849	13.800	29.64	0.00	0.00	0.00	2.66	3.63	0.00	3.63	0.00	1.70	0.10	1.42	3.22	0.00	0.00	0.00	0.	0.00
850	13.700	29.65	0.00	0.00	0.00	2.65	3.60	0.00	3.60	0.00	1.70	0.10	1.42	3.22	0.00	0.00	0.00	0.	0.00
851	13.600	29.67	0.00	0.00	0.00	2.64	3.57	0.00	3.57	0.00	1.70	0.10	1.42	3.23	0.00	0.00	0.00	0.	0.00
852	13.500	29.68	0.00	0.00	0.00	2.63	3.54	0.00	3.54	0.00	1.70	0.10	1.42	3.23	0.00	0.00	0.00	0.	0.00
853	13.400	29.70	0.00	0.00	0.00	2.62	3.51	0.00	3.51	0.00	1.70	0.10	1.42	3.23	0.00	0.00	0.00	0.	0.00
854	13.300	29.72	0.00	0.00	0.00	2.61	3.48	0.00	3.48	0.00	1.70	0.10	1.43	3.23	0.00	0.00	0.00	0.	0.00
855	13.200	29.73	0.00	0.00	0.00	2.60	3.45	0.00	3.45	0.00	1.70	0.10	1.43	3.23	0.00	0.00	0.00	0.	0.00
856	13.100	29.75	0.00	0.00	0.00	2.59	3.43	0.00	3.43	0.00	1.70	0.10	1.43	3.24	0.00	0.00	0.00	0.	0.00
857	13.000	29.76	0.00	0.00	0.00	2.59	3.40	0.00	3.40	0.00	1.71	0.10	1.43	3.24	0.00	0.00	0.00	0.	0.00
858	12.900	29.78	0.00	0.00	0.00	2.58	3.37	0.00	3.37	0.00	1.71	0.10	1.43	3.24	0.00	0.00	0.00	0.	0.00
859	12.800	29.80	0.00	0.00	0.00	2.57	3.34	0.00	3.34	0.00	1.71	0.10	1.43	3.24	0.00	0.00	0.00	0.	0.00
860	12.700	29.81	0.00	0.00	0.00	2.56	3.32	0.00	3.32	0.00	1.71	0.10	1.43	3.24	0.00	0.00	0.00	0.	0.00
861	12.600	29.83	0.00	0.00	0.00	2.56	3.29	0.00	3.29	0.00	1.71	0.10	1.43	3.25	0.00	0.00	0.00	0.	0.00
862	12.500	29.84	0.00	0.00	0.00	2.55	3.26	0.00	3.26	0.00	1.71	0.10	1.43	3.25	0.00	0.00	0.00	0.	0.00
863	12.400	29.86	0.00	0.00	0.00	2.54	3.24	0.00	3.24	0.00	1.71	0.10	1.43	3.25	0.00	0.00	0.00	0.	0.00
864	12.300	29.88	0.00	0.00	0.00	2.54	3.21	0.00	3.21	0.00	1.71	0.10	1.43	3.25	0.00	0.00	0.00	0.	0.00
865	12.200	29.89	0.00	0.00	0.00	2.53	3.18	0.00	3.18	0.00	1.71	0.10	1.44	3.25	0.00	0.00	0.00	0.	0.00
866	12.100	29.91	0.00	0.00	0.00	2.53	3.16	0.00	3.16	0.00	1.71	0.10	1.44	3.26	0.00	0.00	0.00	0.	0.00
867	12.000	29.92	0.00	0.00	0.00	2.52	3.13	0.00	3.13	0.00	1.72	0.11	1.44	3.26	0.00	0.00	0.00	0.	0.00
868	11.900	29.94	0.00	0.00	0.00	2.51	3.11	0.00	3.11	0.00	1.72	0.11	1.44	3.26	0.00	0.00	0.00	0.	0.00

869	11.800	29.96	0.00	0.00	0.00	2.51	3.08	0.00	3.08	0.00	1.72	0.11	1.44	3.26	0.00	0.00	0.00	0.	0.00
870	11.700	29.97	0.00	0.00	0.00	2.50	3.06	0.00	3.06	0.00	1.72	0.11	1.44	3.26	0.00	0.00	0.00	0.	0.00
871	11.600	29.99	0.00	0.00	0.00	2.50	3.03	0.00	3.03	0.00	1.72	0.11	1.44	3.27	0.00	0.00	0.00	0.	0.00
872	11.500	30.00	0.00	0.00	0.00	2.49	3.01	0.00	3.01	0.00	1.72	0.11	1.44	3.27	0.00	0.00	0.00	0.	0.00
873	11.400	30.02	0.00	0.00	0.00	2.49	2.98	0.00	2.98	0.00	1.72	0.11	1.44	3.27	0.00	0.00	0.00	0.	0.00
874	11.300	30.04	0.00	0.00	0.00	2.49	2.96	0.00	2.96	0.00	1.72	0.11	1.44	3.27	0.00	0.00	0.00	0.	0.00
875	11.200	30.05	0.00	0.00	0.00	2.48	2.93	0.00	2.93	0.00	1.72	0.11	1.44	3.27	0.00	0.00	0.00	0.	0.00
876	11.100	30.07	0.00	0.00	0.00	2.48	2.91	0.00	2.91	0.00	1.72	0.11	1.45	3.28	0.00	0.00	0.00	0.	0.00
877	11.000	30.08	0.00	0.00	0.00	2.47	2.88	0.00	2.88	0.00	1.72	0.11	1.45	3.28	0.00	0.00	0.00	0.	0.00
878	10.900	30.10	0.00	0.00	0.00	2.47	2.86	0.00	2.86	0.00	1.73	0.11	1.45	3.28	0.00	0.00	0.00	0.	0.00

FINAL REPORT Bayou Cholpe #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 16 Intracoastal Waterway #4 Calibration Simulation for Upper Terrebonne model
********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
1047	UPR RCH	11.34741	30.10	0.00	0.00	0.00	2.47	2.86	0.00	2.86	0.00	1.73	0.11	1.45	0.00	0.00	0.00	0.00
1047	TRIB	6.87829	30.10	0.00	0.00	0.00	3.50	4.53	0.00	4.53	0.00	1.34	0.07	0.69	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m≥/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m≥	AREA m≤	AREA m≤	PRISM m≥	SURFACE VELO m/s	X-SECT VELO m≤/s	TIDAL m/s	TIDAL	DISPRSN	MEAN
1047	10.90	10.80	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1048	10.80	10.70	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1049	10.70	10.60	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1050	10.60	10.50	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1051	10.50	10.40	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1052	10.40	10.30	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1053	10.30	10.20	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1054	10.20	10.10	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1055	10.10	10.00	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1056	10.00	9.90	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1057	9.90	9.80	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1058	9.80	9.70	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1059	9.70	9.60	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1060	9.60	9.50	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1061	9.50	9.40	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1062	9.40	9.30	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1063	9.30	9.20	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1064	9.20	9.10	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1065	9.10	9.00	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1066	9.00	8.90	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1067	8.90	8.80	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1068	8.80	8.70	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1069	8.70	8.60	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1070	8.60	8.50	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			
1071	8.50	8.40	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104			

1072	8.40	8.30	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1073	8.30	8.20	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1074	8.20	8.10	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1075	8.10	8.00	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1076	8.00	7.90	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1077	7.90	7.80	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1078	7.80	7.70	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1079	7.70	7.60	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1080	7.60	7.50	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1081	7.50	7.40	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1082	7.40	7.30	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1083	7.30	7.20	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1084	7.20	7.10	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1085	7.10	7.00	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1086	7.00	6.90	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1087	6.90	6.80	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1088	6.80	6.70	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1089	6.70	6.60	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1090	6.60	6.50	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1091	6.50	6.40	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1092	6.40	6.30	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1093	6.30	6.20	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1094	6.20	6.10	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1095	6.10	6.00	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1096	6.00	5.90	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1097	5.90	5.80	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1098	5.80	5.70	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1099	5.70	5.60	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1100	5.60	5.50	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1101	5.50	5.40	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1102	5.40	5.30	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1103	5.30	5.20	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1104	5.20	5.10	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1105	5.10	5.00	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1106	5.00	4.90	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1107	4.90	4.80	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1108	4.80	4.70	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1109	4.70	4.60	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1110	4.60	4.50	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1111	4.50	4.40	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1112	4.40	4.30	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1113	4.30	4.20	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1114	4.20	4.10	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1115	4.10	4.00	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1116	4.00	3.90	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1117	3.90	3.80	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1118	3.80	3.70	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1119	3.70	3.60	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1120	3.60	3.50	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1121	3.50	3.40	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104

1122	3.40	3.30	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1123	3.30	3.20	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1124	3.20	3.10	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1125	3.10	3.00	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1126	3.00	2.90	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1127	2.90	2.80	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1128	2.80	2.70	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1129	2.70	2.60	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1130	2.60	2.50	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1131	2.50	2.40	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1132	2.40	2.30	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1133	2.30	2.20	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1134	2.20	2.10	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1135	2.10	2.00	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1136	2.00	1.90	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1137	1.90	1.80	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1138	1.80	1.70	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1139	1.70	1.60	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1140	1.60	1.50	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1141	1.50	1.40	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1142	1.40	1.30	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1143	1.30	1.20	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1144	1.20	1.10	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1145	1.10	1.00	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1146	1.00	0.90	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1147	0.90	0.80	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1148	0.80	0.70	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1149	0.70	0.60	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1150	0.60	0.50	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1151	0.50	0.40	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1152	0.40	0.30	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1153	0.30	0.20	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1154	0.20	0.10	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104
1155	0.10	0.00	18.22570	16.9	0.10415	0.01	2.50	70.00	17500.00	7000.00	175.00	0.00	0.000	0.000	0.104

TOT					1.21			1907500.00	763000.00							
AVG				0.1041			2.50	70.00			175.00					
CUM					21.15											

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY 1/da	ORGN SETT *	ORGN DECAY **	SRCE **	NH3 RATE 1/da	NH3 SRCE 1/da	DENIT PROD 1/da	PO4 PROD 1/da	ALG DECAY 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
1047	10.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1048	10.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1049	10.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1050	10.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1051	10.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1052	10.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1053	10.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1054	10.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1055	10.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1056	9.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1057	9.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1058	9.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1059	9.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1060	9.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1061	9.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1062	9.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1063	9.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1064	9.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1065	9.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1066	8.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1067	8.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1068	8.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1069	8.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070	8.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1071	8.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1072	8.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1073	8.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1074	8.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1075	8.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1076	7.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1077	7.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1078	7.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1079	7.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1080	7.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1081	7.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1082	7.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1083	7.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1084	7.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1085	7.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1086	6.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1087	6.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1088	6.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1089	6.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1090	6.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1091	6.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1092	6.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1093	6.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1094	6.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1095	6.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1096	5.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1097	5.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1098	5.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1099	5.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100	5.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1101	5.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1102	5.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

1103	5.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1104	5.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1105	5.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1106	4.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1107	4.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1108	4.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1109	4.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1110	4.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1111	4.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1112	4.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1113	4.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1114	4.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1115	4.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1116	3.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1117	3.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1118	3.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1119	3.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1120	3.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1121	3.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1122	3.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1123	3.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1124	3.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1125	3.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1126	2.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1127	2.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1128	2.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1129	2.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1130	2.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1131	2.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1132	2.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1133	2.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1134	2.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1135	2.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1136	1.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1137	1.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1138	1.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1139	1.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1140	1.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1141	1.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1142	1.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1143	1.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1144	1.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1145	1.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1146	0.900	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1147	0.800	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1148	0.700	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1149	0.600	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1150	0.500	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1151	0.400	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1152	0.300	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

1153	0.200	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1154	0.100	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1155	0.000	7.55	0.39	0.32	0.00	0.00	0.00	0.00	0.00	1.32	1.32	1.32	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.32 0.20 0.00 0.00 0.00 0.00 0.00 0.70 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO #/100mL	COLI	NCM
1047	10.800	30.10	0.00	0.00	0.00	2.86	3.48	0.00	3.48	0.00	1.58	0.09	1.16	2.84	0.00	0.00	0.00	0.	0.00
1048	10.700	30.10	0.00	0.00	0.00	2.86	3.47	0.00	3.47	0.00	1.58	0.09	1.16	2.84	0.00	0.00	0.00	0.	0.00
1049	10.600	30.10	0.00	0.00	0.00	2.86	3.45	0.00	3.45	0.00	1.58	0.09	1.16	2.84	0.00	0.00	0.00	0.	0.00
1050	10.500	30.10	0.00	0.00	0.00	2.86	3.44	0.00	3.44	0.00	1.58	0.09	1.16	2.84	0.00	0.00	0.00	0.	0.00
1051	10.400	30.10	0.00	0.00	0.00	2.86	3.43	0.00	3.43	0.00	1.58	0.09	1.16	2.84	0.00	0.00	0.00	0.	0.00
1052	10.300	30.10	0.00	0.00	0.00	2.86	3.42	0.00	3.42	0.00	1.58	0.09	1.16	2.84	0.00	0.00	0.00	0.	0.00
1053	10.200	30.10	0.00	0.00	0.00	2.86	3.41	0.00	3.41	0.00	1.58	0.09	1.17	2.84	0.00	0.00	0.00	0.	0.00
1054	10.100	30.10	0.00	0.00	0.00	2.86	3.39	0.00	3.39	0.00	1.59	0.09	1.17	2.84	0.00	0.00	0.00	0.	0.00
1055	10.000	30.10	0.00	0.00	0.00	2.86	3.38	0.00	3.38	0.00	1.59	0.09	1.17	2.85	0.00	0.00	0.00	0.	0.00
1056	9.900	30.10	0.00	0.00	0.00	2.87	3.37	0.00	3.37	0.00	1.59	0.09	1.17	2.85	0.00	0.00	0.00	0.	0.00
1057	9.800	30.10	0.00	0.00	0.00	2.87	3.36	0.00	3.36	0.00	1.59	0.09	1.17	2.85	0.00	0.00	0.00	0.	0.00
1058	9.700	30.10	0.00	0.00	0.00	2.87	3.35	0.00	3.35	0.00	1.59	0.09	1.17	2.85	0.00	0.00	0.00	0.	0.00
1059	9.600	30.10	0.00	0.00	0.00	2.87	3.33	0.00	3.33	0.00	1.59	0.09	1.17	2.85	0.00	0.00	0.00	0.	0.00
1060	9.500	30.10	0.00	0.00	0.00	2.87	3.32	0.00	3.32	0.00	1.59	0.09	1.17	2.85	0.00	0.00	0.00	0.	0.00
1061	9.400	30.10	0.00	0.00	0.00	2.87	3.31	0.00	3.31	0.00	1.59	0.09	1.17	2.85	0.00	0.00	0.00	0.	0.00
1062	9.300	30.10	0.00	0.00	0.00	2.87	3.30	0.00	3.30	0.00	1.59	0.09	1.17	2.85	0.00	0.00	0.00	0.	0.00
1063	9.200	30.10	0.00	0.00	0.00	2.87	3.29	0.00	3.29	0.00	1.59	0.09	1.17	2.86	0.00	0.00	0.00	0.	0.00
1064	9.100	30.10	0.00	0.00	0.00	2.87	3.28	0.00	3.28	0.00	1.59	0.09	1.17	2.86	0.00	0.00	0.00	0.	0.00
1065	9.000	30.10	0.00	0.00	0.00	2.87	3.27	0.00	3.27	0.00	1.59	0.09	1.17	2.86	0.00	0.00	0.00	0.	0.00
1066	8.900	30.10	0.00	0.00	0.00	2.87	3.25	0.00	3.25	0.00	1.59	0.09	1.17	2.86	0.00	0.00	0.00	0.	0.00
1067	8.800	30.10	0.00	0.00	0.00	2.88	3.24	0.00	3.24	0.00	1.60	0.09	1.17	2.86	0.00	0.00	0.00	0.	0.00
1068	8.700	30.10	0.00	0.00	0.00	2.88	3.23	0.00	3.23	0.00	1.60	0.09	1.17	2.86	0.00	0.00	0.00	0.	0.00
1069	8.600	30.10	0.00	0.00	0.00	2.88	3.22	0.00	3.22	0.00	1.60	0.09	1.17	2.86	0.00	0.00	0.00	0.	0.00
1070	8.500	30.10	0.00	0.00	0.00	2.88	3.21	0.00	3.21	0.00	1.60	0.09	1.17	2.86	0.00	0.00	0.00	0.	0.00
1071	8.400	30.10	0.00	0.00	0.00	2.88	3.20	0.00	3.20	0.00	1.60	0.09	1.17	2.86	0.00	0.00	0.00	0.	0.00
1072	8.300	30.10	0.00	0.00	0.00	2.88	3.19	0.00	3.19	0.00	1.60	0.09	1.17	2.87	0.00	0.00	0.00	0.	0.00
1073	8.200	30.10	0.00	0.00	0.00	2.88	3.17	0.00	3.17	0.00	1.60	0.09	1.17	2.87	0.00	0.00	0.00	0.	0.00
1074	8.100	30.10	0.00	0.00	0.00	2.89	3.16	0.00	3.16	0.00	1.60	0.10	1.17	2.87	0.00	0.00	0.00	0.	0.00
1075	8.000	30.10	0.00	0.00	0.00	2.89	3.15	0.00	3.15	0.00	1.60	0.10	1.17	2.87	0.00	0.00	0.00	0.	0.00
1076	7.900	30.10	0.00	0.00	0.00	2.89	3.14	0.00	3.14	0.00	1.60	0.10	1.17	2.87	0.00	0.00	0.00	0.	0.00
1077	7.800	30.10	0.00	0.00	0.00	2.89	3.13	0.00	3.13	0.00	1.60	0.10	1.17	2.87	0.00	0.00	0.00	0.	0.00
1078	7.700	30.10	0.00	0.00	0.00	2.89	3.12	0.00	3.12	0.00	1.60	0.10	1.17	2.87	0.00	0.00	0.00	0.	0.00
1079	7.600	30.10	0.00	0.00	0.00	2.89	3.11	0.00	3.11	0.00	1.60	0.10	1.17	2.87	0.00	0.00	0.00	0.	0.00
1080	7.500	30.10	0.00	0.00	0.00	2.89	3.10	0.00	3.10	0.00	1.60	0.10	1.18	2.88	0.00	0.00	0.00	0.	0.00
1081	7.400	30.10	0.00	0.00	0.00	2.90	3.09	0.00	3.09	0.00	1.61	0.10	1.18	2.88	0.00	0.00	0.00	0.	0.00
1082	7.300	30.10	0.00	0.00	0.00	2.90	3.07	0.00	3.07	0.00	1.61	0.10	1.18	2.88	0.00	0.00	0.00	0.	0.00
1083	7.200	30.10	0.00	0.00	0.00	2.90	3.06	0.00	3.06	0.00	1.61	0.10	1.18	2.88	0.00	0.00	0.00	0.	0.00
1084	7.100	30.10	0.00	0.00	0.00	2.90	3.05	0.00	3.05	0.00	1.61	0.10	1.18	2.88	0.00	0.00	0.00	0.	0.00

1085	7.000	30.10	0.00	0.00	0.00	2.90	3.04	0.00	3.04	0.00	1.61	0.10	1.18	2.88	0.00	0.00	0.00	0.	0.00
1086	6.900	30.10	0.00	0.00	0.00	2.90	3.03	0.00	3.03	0.00	1.61	0.10	1.18	2.88	0.00	0.00	0.00	0.	0.00
1087	6.800	30.10	0.00	0.00	0.00	2.91	3.02	0.00	3.02	0.00	1.61	0.10	1.18	2.88	0.00	0.00	0.00	0.	0.00
1088	6.700	30.10	0.00	0.00	0.00	2.91	3.01	0.00	3.01	0.00	1.61	0.10	1.18	2.88	0.00	0.00	0.00	0.	0.00
1089	6.600	30.10	0.00	0.00	0.00	2.91	3.00	0.00	3.00	0.00	1.61	0.10	1.18	2.89	0.00	0.00	0.00	0.	0.00
1090	6.500	30.10	0.00	0.00	0.00	2.91	2.99	0.00	2.99	0.00	1.61	0.10	1.18	2.89	0.00	0.00	0.00	0.	0.00
1091	6.400	30.10	0.00	0.00	0.00	2.91	2.98	0.00	2.98	0.00	1.61	0.10	1.18	2.89	0.00	0.00	0.00	0.	0.00
1092	6.300	30.10	0.00	0.00	0.00	2.92	2.97	0.00	2.97	0.00	1.61	0.10	1.18	2.89	0.00	0.00	0.00	0.	0.00
1093	6.200	30.10	0.00	0.00	0.00	2.92	2.96	0.00	2.96	0.00	1.61	0.10	1.18	2.89	0.00	0.00	0.00	0.	0.00
1094	6.100	30.10	0.00	0.00	0.00	2.92	2.95	0.00	2.95	0.00	1.61	0.10	1.18	2.89	0.00	0.00	0.00	0.	0.00
1095	6.000	30.10	0.00	0.00	0.00	2.92	2.94	0.00	2.94	0.00	1.62	0.10	1.18	2.89	0.00	0.00	0.00	0.	0.00
1096	5.900	30.10	0.00	0.00	0.00	2.92	2.93	0.00	2.93	0.00	1.62	0.10	1.18	2.89	0.00	0.00	0.00	0.	0.00
1097	5.800	30.10	0.00	0.00	0.00	2.93	2.92	0.00	2.92	0.00	1.62	0.10	1.18	2.90	0.00	0.00	0.00	0.	0.00
1098	5.700	30.10	0.00	0.00	0.00	2.93	2.91	0.00	2.91	0.00	1.62	0.10	1.18	2.90	0.00	0.00	0.00	0.	0.00
1099	5.600	30.10	0.00	0.00	0.00	2.93	2.90	0.00	2.90	0.00	1.62	0.10	1.18	2.90	0.00	0.00	0.00	0.	0.00
1100	5.500	30.10	0.00	0.00	0.00	2.93	2.89	0.00	2.89	0.00	1.62	0.10	1.18	2.90	0.00	0.00	0.00	0.	0.00
1101	5.400	30.10	0.00	0.00	0.00	2.93	2.88	0.00	2.88	0.00	1.62	0.10	1.18	2.90	0.00	0.00	0.00	0.	0.00
1102	5.300	30.10	0.00	0.00	0.00	2.94	2.87	0.00	2.87	0.00	1.62	0.10	1.18	2.90	0.00	0.00	0.00	0.	0.00
1103	5.200	30.10	0.00	0.00	0.00	2.94	2.86	0.00	2.86	0.00	1.62	0.10	1.18	2.90	0.00	0.00	0.00	0.	0.00
1104	5.100	30.10	0.00	0.00	0.00	2.94	2.85	0.00	2.85	0.00	1.62	0.10	1.18	2.90	0.00	0.00	0.00	0.	0.00
1105	5.000	30.10	0.00	0.00	0.00	2.94	2.84	0.00	2.84	0.00	1.62	0.10	1.18	2.90	0.00	0.00	0.00	0.	0.00
1106	4.900	30.10	0.00	0.00	0.00	2.94	2.83	0.00	2.83	0.00	1.62	0.10	1.18	2.91	0.00	0.00	0.00	0.	0.00
1107	4.800	30.10	0.00	0.00	0.00	2.95	2.82	0.00	2.82	0.00	1.62	0.10	1.19	2.91	0.00	0.00	0.00	0.	0.00
1108	4.700	30.10	0.00	0.00	0.00	2.95	2.81	0.00	2.81	0.00	1.63	0.10	1.19	2.91	0.00	0.00	0.00	0.	0.00
1109	4.600	30.10	0.00	0.00	0.00	2.95	2.80	0.00	2.80	0.00	1.63	0.10	1.19	2.91	0.00	0.00	0.00	0.	0.00
1110	4.500	30.10	0.00	0.00	0.00	2.95	2.79	0.00	2.79	0.00	1.63	0.10	1.19	2.91	0.00	0.00	0.00	0.	0.00
1111	4.400	30.10	0.00	0.00	0.00	2.96	2.78	0.00	2.78	0.00	1.63	0.10	1.19	2.91	0.00	0.00	0.00	0.	0.00
1112	4.300	30.10	0.00	0.00	0.00	2.96	2.77	0.00	2.77	0.00	1.63	0.10	1.19	2.91	0.00	0.00	0.00	0.	0.00
1113	4.200	30.10	0.00	0.00	0.00	2.96	2.76	0.00	2.76	0.00	1.63	0.10	1.19	2.91	0.00	0.00	0.00	0.	0.00
1114	4.100	30.10	0.00	0.00	0.00	2.96	2.75	0.00	2.75	0.00	1.63	0.10	1.19	2.91	0.00	0.00	0.00	0.	0.00
1115	4.000	30.10	0.00	0.00	0.00	2.97	2.74	0.00	2.74	0.00	1.63	0.10	1.19	2.92	0.00	0.00	0.00	0.	0.00
1116	3.900	30.10	0.00	0.00	0.00	2.97	2.73	0.00	2.73	0.00	1.63	0.10	1.19	2.92	0.00	0.00	0.00	0.	0.00
1117	3.800	30.10	0.00	0.00	0.00	2.97	2.72	0.00	2.72	0.00	1.63	0.10	1.19	2.92	0.00	0.00	0.00	0.	0.00
1118	3.700	30.10	0.00	0.00	0.00	2.97	2.71	0.00	2.71	0.00	1.63	0.10	1.19	2.92	0.00	0.00	0.00	0.	0.00
1119	3.600	30.10	0.00	0.00	0.00	2.98	2.70	0.00	2.70	0.00	1.63	0.10	1.19	2.92	0.00	0.00	0.00	0.	0.00
1120	3.500	30.10	0.00	0.00	0.00	2.98	2.69	0.00	2.69	0.00	1.63	0.10	1.19	2.92	0.00	0.00	0.00	0.	0.00
1121	3.400	30.10	0.00	0.00	0.00	2.98	2.68	0.00	2.68	0.00	1.63	0.10	1.19	2.92	0.00	0.00	0.00	0.	0.00
1122	3.300	30.10	0.00	0.00	0.00	2.98	2.67	0.00	2.67	0.00	1.64	0.10	1.19	2.92	0.00	0.00	0.00	0.	0.00
1123	3.200	30.10	0.00	0.00	0.00	2.99	2.66	0.00	2.66	0.00	1.64	0.10	1.19	2.93	0.00	0.00	0.00	0.	0.00
1124	3.100	30.10	0.00	0.00	0.00	2.99	2.65	0.00	2.65	0.00	1.64	0.10	1.19	2.93	0.00	0.00	0.00	0.	0.00
1125	3.000	30.10	0.00	0.00	0.00	2.99	2.64	0.00	2.64	0.00	1.64	0.10	1.19	2.93	0.00	0.00	0.00	0.	0.00
1126	2.900	30.10	0.00	0.00	0.00	2.99	2.63	0.00	2.63	0.00	1.64	0.10	1.19	2.93	0.00	0.00	0.00	0.	0.00
1127	2.800	30.10	0.00	0.00	0.00	3.00	2.62	0.00	2.62	0.00	1.64	0.10	1.19	2.93	0.00	0.00	0.00	0.	0.00
1128	2.700	30.10	0.00	0.00	0.00	3.00	2.61	0.00	2.61	0.00	1.64	0.10	1.19	2.93	0.00	0.00	0.00	0.	0.00
1129	2.600	30.10	0.00	0.00	0.00	3.00	2.61	0.00	2.61	0.00	1.64	0.10	1.19	2.93	0.00	0.00	0.00	0.	0.00
1130	2.500	30.10	0.00	0.00	0.00	3.01	2.60	0.00	2.60	0.00	1.64	0.10	1.19	2.93	0.00	0.00	0.00	0.	0.00
1131	2.400	30.10	0.00	0.00	0.00	3.01	2.59	0.00	2.59	0.00	1.64	0.10	1.19	2.93	0.00	0.00	0.00	0.	0.00
1132	2.300	30.10	0.00	0.00	0.00	3.01	2.58	0.00	2.58	0.00	1.64	0.10	1.19	2.94	0.00	0.00	0.00	0.	0.00
1133	2.200	30.10	0.00	0.00	0.00	3.01	2.57	0.00	2.57	0.00	1.64	0.10	1.20	2.94	0.00	0.00	0.00	0.	0.00
1134	2.100	30.10	0.00	0.00	0.00	3.02	2.56	0.00	2.56	0.00	1.64	0.10	1.20	2.94	0.00	0.00	0.00	0.	0.00

1135	2.000	30.10	0.00	0.00	0.00	3.02	2.55	0.00	2.55	0.00	1.64	0.10	1.20	2.94	0.00	0.00	0.00	0.	0.00
1136	1.900	30.10	0.00	0.00	0.00	3.02	2.54	0.00	2.54	0.00	1.65	0.10	1.20	2.94	0.00	0.00	0.00	0.	0.00
1137	1.800	30.10	0.00	0.00	0.00	3.03	2.53	0.00	2.53	0.00	1.65	0.10	1.20	2.94	0.00	0.00	0.00	0.	0.00
1138	1.700	30.10	0.00	0.00	0.00	3.03	2.52	0.00	2.52	0.00	1.65	0.10	1.20	2.94	0.00	0.00	0.00	0.	0.00
1139	1.600	30.10	0.00	0.00	0.00	3.03	2.51	0.00	2.51	0.00	1.65	0.10	1.20	2.94	0.00	0.00	0.00	0.	0.00
1140	1.500	30.10	0.00	0.00	0.00	3.03	2.51	0.00	2.51	0.00	1.65	0.10	1.20	2.95	0.00	0.00	0.00	0.	0.00
1141	1.400	30.10	0.00	0.00	0.00	3.04	2.50	0.00	2.50	0.00	1.65	0.10	1.20	2.95	0.00	0.00	0.00	0.	0.00
1142	1.300	30.10	0.00	0.00	0.00	3.04	2.49	0.00	2.49	0.00	1.65	0.10	1.20	2.95	0.00	0.00	0.00	0.	0.00
1143	1.200	30.10	0.00	0.00	0.00	3.04	2.48	0.00	2.48	0.00	1.65	0.10	1.20	2.95	0.00	0.00	0.00	0.	0.00
1144	1.100	30.10	0.00	0.00	0.00	3.05	2.47	0.00	2.47	0.00	1.65	0.10	1.20	2.95	0.00	0.00	0.00	0.	0.00
1145	1.000	30.10	0.00	0.00	0.00	3.05	2.46	0.00	2.46	0.00	1.65	0.10	1.20	2.95	0.00	0.00	0.00	0.	0.00
1146	0.900	30.10	0.00	0.00	0.00	3.05	2.45	0.00	2.45	0.00	1.65	0.10	1.20	2.95	0.00	0.00	0.00	0.	0.00
1147	0.800	30.10	0.00	0.00	0.00	3.06	2.44	0.00	2.44	0.00	1.65	0.10	1.20	2.95	0.00	0.00	0.00	0.	0.00
1148	0.700	30.10	0.00	0.00	0.00	3.06	2.44	0.00	2.44	0.00	1.65	0.10	1.20	2.95	0.00	0.00	0.00	0.	0.00
1149	0.600	30.10	0.00	0.00	0.00	3.06	2.43	0.00	2.43	0.00	1.65	0.10	1.20	2.96	0.00	0.00	0.00	0.	0.00
1150	0.500	30.10	0.00	0.00	0.00	3.07	2.42	0.00	2.42	0.00	1.66	0.10	1.20	2.96	0.00	0.00	0.00	0.	0.00
1151	0.400	30.10	0.00	0.00	0.00	3.07	2.41	0.00	2.41	0.00	1.66	0.10	1.20	2.96	0.00	0.00	0.00	0.	0.00
1152	0.300	30.10	0.00	0.00	0.00	3.07	2.40	0.00	2.40	0.00	1.66	0.10	1.20	2.96	0.00	0.00	0.00	0.	0.00
1153	0.200	30.10	0.00	0.00	0.00	3.07	2.39	0.00	2.39	0.00	1.66	0.10	1.20	2.96	0.00	0.00	0.00	0.	0.00
1154	0.100	30.10	0.00	0.00	0.00	3.08	2.39	0.00	2.39	0.00	1.66	0.10	1.20	2.96	0.00	0.00	0.00	0.	0.00
1155	0.000	30.10	0.00	0.00	0.00	3.08	2.38	0.00	2.38	0.00	1.66	0.10	1.20	2.96	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Model for Upper Terrebonne
Bayou Cholpe #1 Calibration Simulation for Upper Terrebonne model

TRAVEL TIME = 21.15 DAYS

MAXIMUM EFFLUENT = 40.41 PERCENT

FLOW = 0.09485 TO 18.22570 m≥/s
DISPERSION = 0.0000 TO 0.0000 m≤/s
VELOCITY = 0.01007 TO 0.37940 m/s
DEPTH = 0.25 TO 3.20 m
WIDTH = 1.00 TO 80.00 m

BOD DECAY = 0.16 TO 0.32 per day
NH3 DECAY = 0.26 TO 0.48 per day
SOD = 0.94 TO 6.11 g/m≤/d
NH3 SOURCE = 0.00 TO 0.00 g/m≤/d
REAERATION = 0.26 TO 11.82 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 24.75 TO 31.30 deg C
DISSOLVED OXYGEN = 2.06 TO 7.87 mg/L
FINAL REPORT Bayou Poydras #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 3 Bayou Poydras #1 Calibration Simulation for Upper Terrebonne model
********** REACH INPUTS **********

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

NO.			deg C	ppt		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL	
126	HDWTR	0.06597	27.00	0.00	0.00	0.00	0.30	30.67	0.00	30.67	0.00	1.54	0.20	0.00	0.00	0.00	0.00	0.00
148	WSTLD	0.00013	28.00	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.50	1.50	2.00	0.00	0.00	0.00	0.00
151	WSTLD	0.00003	28.00	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.50	1.50	2.00	0.00	0.00	0.00	0.00
158	WSTLD	0.00028	28.00	0.00	0.00	0.00	5.00	30.00	0.00	30.00	0.00	1.50	1.50	2.00	0.00	0.00	0.00	0.00
164	WSTLD	0.00007	28.00	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.50	1.50	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m≥/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m≥	AREA m≤	AREA m≤	PRISM m≥	SURFACE VELO m/s	X-SECT VELO m≤/s	TIDAL m/s	TIDAL	DISPRSN	MEAN
126	10.30	10.20	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
127	10.20	10.10	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
128	10.10	10.00	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
129	10.00	9.90	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
130	9.90	9.80	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
131	9.80	9.70	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
132	9.70	9.60	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
133	9.60	9.50	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
134	9.50	9.40	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
135	9.40	9.30	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
136	9.30	9.20	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
137	9.20	9.10	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
138	9.10	9.00	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
139	9.00	8.90	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
140	8.90	8.80	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
141	8.80	8.70	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
142	8.70	8.60	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
143	8.60	8.50	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
144	8.50	8.40	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
145	8.40	8.30	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
146	8.30	8.20	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
147	8.20	8.10	0.06597	0.0	0.05497	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
148	8.10	8.00	0.06610	0.2	0.05508	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
149	8.00	7.90	0.06610	0.2	0.05508	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
150	7.90	7.80	0.06610	0.2	0.05508	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
151	7.80	7.70	0.06613	0.2	0.05511	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
152	7.70	7.60	0.06613	0.2	0.05511	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
153	7.60	7.50	0.06613	0.2	0.05511	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
154	7.50	7.40	0.06613	0.2	0.05511	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
155	7.40	7.30	0.06613	0.2	0.05511	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
156	7.30	7.20	0.06613	0.2	0.05511	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
157	7.20	7.10	0.06613	0.2	0.05511	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
158	7.10	7.00	0.06641	0.7	0.05534	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
159	7.00	6.90	0.06641	0.7	0.05534	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
160	6.90	6.80	0.06641	0.7	0.05534	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
161	6.80	6.70	0.06641	0.7	0.05534	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			
162	6.70	6.60	0.06641	0.7	0.05534	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055			

163	6.60	6.50	0.06641	0.7	0.05534	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
164	6.50	6.40	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
165	6.40	6.30	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
166	6.30	6.20	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
167	6.20	6.10	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
168	6.10	6.00	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
169	6.00	5.90	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
170	5.90	5.80	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
171	5.80	5.70	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
172	5.70	5.60	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
173	5.60	5.50	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
174	5.50	5.40	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
175	5.40	5.30	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
176	5.30	5.20	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
177	5.20	5.10	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
178	5.10	5.00	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
179	5.00	4.90	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
180	4.90	4.80	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
181	4.80	4.70	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055
182	4.70	4.60	0.06648	0.8	0.05540	0.02	0.30	4.00	120.00	400.00	1.20	0.00	0.000	0.000	0.055

TOT					1.20			6840.00	22800.00	
AVG				0.0552		0.30	4.00			1.20
CUM					1.20					

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY 1/da	ORGN SETT *	ORGN DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD *	ALG PROD **	MAC DECAY **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
126	10.200	7.97	6.40	0.08	0.00	0.00	0.00	0.00	0.00	1.55	1.55	0.86	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	10.100	7.97	6.40	0.12	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.37	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	10.000	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	9.900	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	9.800	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	9.700	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	9.600	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	9.500	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	9.400	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	9.300	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	9.200	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	9.100	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	9.000	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	8.900	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	8.800	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	8.700	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	8.600	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	8.500	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	8.400	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	8.300	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

146	8.200	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	8.100	7.97	6.40	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	8.000	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	7.900	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	7.800	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	7.700	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	7.600	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	7.500	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	7.400	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	7.300	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	7.200	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	7.100	7.97	6.41	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	7.000	7.97	6.42	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	6.900	7.97	6.42	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	6.800	7.97	6.42	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	6.700	7.97	6.42	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	6.600	7.97	6.42	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	6.500	7.97	6.42	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	6.400	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	6.300	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	6.200	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167	6.100	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	6.000	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169	5.900	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	5.800	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	5.700	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	5.600	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	5.500	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	5.400	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	5.300	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	5.200	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	5.100	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	5.000	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179	4.900	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	4.800	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
181	4.700	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182	4.600	7.97	6.43	0.14	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 5.62 0.10 0.00 0.00 0.00 0.00 0.00 1.00 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO #/100mL	COLI	NCM
126	10.200	27.00	0.00	0.00	0.00	1.11	30.62	0.00	30.62	0.00	1.54	0.20	0.00	1.74	0.00	0.00	0.00	0.	0.00
127	10.100	27.00	0.00	0.00	0.00	1.77	30.54	0.00	30.54	0.00	1.54	0.20	0.00	1.74	0.00	0.00	0.00	0.	0.00
128	10.000	27.00	0.00	0.00	0.00	2.33	30.45	0.00	30.45	0.00	1.54	0.20	0.00	1.74	0.00	0.00	0.00	0.	0.00
129	9.900	27.00	0.00	0.00	0.00	2.82	30.37	0.00	30.37	0.00	1.54	0.20	0.00	1.74	0.00	0.00	0.00	0.	0.00

130	9.800	27.00	0.00	0.00	0.00	3.25	30.28	0.00	30.28	0.00	1.54	0.20	0.00	1.74	0.00	0.00	0.00	0.	0.00
131	9.700	27.00	0.00	0.00	0.00	3.64	30.19	0.00	30.19	0.00	1.54	0.20	0.01	1.74	0.00	0.00	0.00	0.	0.00
132	9.600	27.00	0.00	0.00	0.00	3.97	30.10	0.00	30.10	0.00	1.53	0.20	0.01	1.74	0.00	0.00	0.00	0.	0.00
133	9.500	27.00	0.00	0.00	0.00	4.27	30.02	0.00	30.02	0.00	1.53	0.20	0.01	1.74	0.00	0.00	0.00	0.	0.00
134	9.400	27.00	0.00	0.00	0.00	4.53	29.93	0.00	29.93	0.00	1.53	0.20	0.01	1.74	0.00	0.00	0.00	0.	0.00
135	9.300	27.00	0.00	0.00	0.00	4.76	29.84	0.00	29.84	0.00	1.53	0.20	0.01	1.74	0.00	0.00	0.00	0.	0.00
136	9.200	27.00	0.00	0.00	0.00	4.97	29.76	0.00	29.76	0.00	1.53	0.20	0.01	1.74	0.00	0.00	0.00	0.	0.00
137	9.100	27.00	0.00	0.00	0.00	5.15	29.67	0.00	29.67	0.00	1.53	0.20	0.01	1.74	0.00	0.00	0.00	0.	0.00
138	9.000	27.00	0.00	0.00	0.00	5.31	29.58	0.00	29.58	0.00	1.53	0.20	0.01	1.74	0.00	0.00	0.00	0.	0.00
139	8.900	27.00	0.00	0.00	0.00	5.45	29.50	0.00	29.50	0.00	1.53	0.19	0.02	1.74	0.00	0.00	0.00	0.	0.00
140	8.800	27.00	0.00	0.00	0.00	5.57	29.41	0.00	29.41	0.00	1.53	0.19	0.02	1.74	0.00	0.00	0.00	0.	0.00
141	8.700	27.00	0.00	0.00	0.00	5.68	29.33	0.00	29.33	0.00	1.53	0.19	0.02	1.74	0.00	0.00	0.00	0.	0.00
142	8.600	27.00	0.00	0.00	0.00	5.77	29.24	0.00	29.24	0.00	1.53	0.19	0.02	1.74	0.00	0.00	0.00	0.	0.00
143	8.500	27.00	0.00	0.00	0.00	5.86	29.16	0.00	29.16	0.00	1.53	0.19	0.02	1.74	0.00	0.00	0.00	0.	0.00
144	8.400	27.00	0.00	0.00	0.00	5.93	29.08	0.00	29.08	0.00	1.53	0.19	0.02	1.74	0.00	0.00	0.00	0.	0.00
145	8.300	27.00	0.00	0.00	0.00	6.00	28.99	0.00	28.99	0.00	1.53	0.19	0.02	1.74	0.00	0.00	0.00	0.	0.00
146	8.200	27.00	0.00	0.00	0.00	6.06	28.91	0.00	28.91	0.00	1.52	0.19	0.03	1.74	0.00	0.00	0.00	0.	0.00
147	8.100	27.00	0.00	0.00	0.00	6.11	28.82	0.00	28.82	0.00	1.52	0.19	0.03	1.74	0.00	0.00	0.00	0.	0.00
148	8.000	27.00	0.00	0.00	0.00	6.16	28.77	0.00	28.77	0.00	1.52	0.19	0.03	1.75	0.00	0.00	0.00	0.	0.00
149	7.900	27.00	0.00	0.00	0.00	6.20	28.69	0.00	28.69	0.00	1.52	0.19	0.03	1.75	0.00	0.00	0.00	0.	0.00
150	7.800	27.00	0.00	0.00	0.00	6.23	28.61	0.00	28.61	0.00	1.52	0.19	0.03	1.75	0.00	0.00	0.00	0.	0.00
151	7.700	27.00	0.00	0.00	0.00	6.27	28.53	0.00	28.53	0.00	1.52	0.19	0.04	1.75	0.00	0.00	0.00	0.	0.00
152	7.600	27.00	0.00	0.00	0.00	6.29	28.45	0.00	28.45	0.00	1.52	0.19	0.04	1.75	0.00	0.00	0.00	0.	0.00
153	7.500	27.00	0.00	0.00	0.00	6.32	28.37	0.00	28.37	0.00	1.52	0.19	0.04	1.75	0.00	0.00	0.00	0.	0.00
154	7.400	27.00	0.00	0.00	0.00	6.34	28.29	0.00	28.29	0.00	1.52	0.19	0.04	1.75	0.00	0.00	0.00	0.	0.00
155	7.300	27.00	0.00	0.00	0.00	6.36	28.20	0.00	28.20	0.00	1.52	0.19	0.04	1.75	0.00	0.00	0.00	0.	0.00
156	7.200	27.00	0.00	0.00	0.00	6.38	28.12	0.00	28.12	0.00	1.52	0.19	0.04	1.75	0.00	0.00	0.00	0.	0.00
157	7.100	27.00	0.00	0.00	0.00	6.40	28.04	0.00	28.04	0.00	1.52	0.19	0.04	1.75	0.00	0.00	0.00	0.	0.00
158	7.000	27.00	0.00	0.00	0.00	6.41	27.97	0.00	27.97	0.00	1.52	0.19	0.05	1.76	0.00	0.00	0.00	0.	0.00
159	6.900	27.00	0.00	0.00	0.00	6.42	27.89	0.00	27.89	0.00	1.51	0.19	0.06	1.76	0.00	0.00	0.00	0.	0.00
160	6.800	27.00	0.00	0.00	0.00	6.43	27.81	0.00	27.81	0.00	1.51	0.19	0.06	1.76	0.00	0.00	0.00	0.	0.00
161	6.700	27.00	0.00	0.00	0.00	6.44	27.73	0.00	27.73	0.00	1.51	0.19	0.06	1.76	0.00	0.00	0.00	0.	0.00
162	6.600	27.00	0.00	0.00	0.00	6.45	27.65	0.00	27.65	0.00	1.51	0.19	0.06	1.76	0.00	0.00	0.00	0.	0.00
163	6.500	27.00	0.00	0.00	0.00	6.46	27.57	0.00	27.57	0.00	1.51	0.19	0.06	1.76	0.00	0.00	0.00	0.	0.00
164	6.400	27.00	0.00	0.00	0.00	6.47	27.51	0.00	27.51	0.00	1.51	0.19	0.06	1.77	0.00	0.00	0.00	0.	0.00
165	6.300	27.00	0.00	0.00	0.00	6.48	27.43	0.00	27.43	0.00	1.51	0.19	0.07	1.77	0.00	0.00	0.00	0.	0.00
166	6.200	27.00	0.00	0.00	0.00	6.48	27.35	0.00	27.35	0.00	1.51	0.19	0.07	1.77	0.00	0.00	0.00	0.	0.00
167	6.100	27.00	0.00	0.00	0.00	6.49	27.27	0.00	27.27	0.00	1.51	0.19	0.07	1.77	0.00	0.00	0.00	0.	0.00
168	6.000	27.00	0.00	0.00	0.00	6.50	27.19	0.00	27.19	0.00	1.51	0.19	0.07	1.77	0.00	0.00	0.00	0.	0.00
169	5.900	27.00	0.00	0.00	0.00	6.50	27.12	0.00	27.12	0.00	1.51	0.19	0.07	1.77	0.00	0.00	0.00	0.	0.00
170	5.800	27.00	0.00	0.00	0.00	6.51	27.04	0.00	27.04	0.00	1.51	0.19	0.07	1.77	0.00	0.00	0.00	0.	0.00
171	5.700	27.00	0.00	0.00	0.00	6.51	26.96	0.00	26.96	0.00	1.51	0.19	0.07	1.77	0.00	0.00	0.00	0.	0.00
172	5.600	27.00	0.00	0.00	0.00	6.52	26.88	0.00	26.88	0.00	1.51	0.19	0.07	1.77	0.00	0.00	0.00	0.	0.00
173	5.500	27.00	0.00	0.00	0.00	6.52	26.81	0.00	26.81	0.00	1.50	0.18	0.08	1.77	0.00	0.00	0.00	0.	0.00
174	5.400	27.00	0.00	0.00	0.00	6.52	26.73	0.00	26.73	0.00	1.50	0.18	0.08	1.77	0.00	0.00	0.00	0.	0.00
175	5.300	27.00	0.00	0.00	0.00	6.53	26.65	0.00	26.65	0.00	1.50	0.18	0.08	1.77	0.00	0.00	0.00	0.	0.00
176	5.200	27.00	0.00	0.00	0.00	6.53	26.58	0.00	26.58	0.00	1.50	0.18	0.08	1.77	0.00	0.00	0.00	0.	0.00
177	5.100	27.00	0.00	0.00	0.00	6.53	26.50	0.00	26.50	0.00	1.50	0.18	0.08	1.77	0.00	0.00	0.00	0.	0.00
178	5.000	27.00	0.00	0.00	0.00	6.54	26.42	0.00	26.42	0.00	1.50	0.18	0.08	1.77	0.00	0.00	0.00	0.	0.00
179	4.900	27.00	0.00	0.00	0.00	6.54	26.35	0.00	26.35	0.00	1.50	0.18	0.08	1.77	0.00	0.00	0.00	0.	0.00

180	4.800	27.00	0.00	0.00	0.00	6.54	26.27	0.00	26.27	0.00	1.50	0.18	0.08	1.77	0.00	0.00	0.00	0.	0.00
181	4.700	27.00	0.00	0.00	0.00	6.54	26.20	0.00	26.20	0.00	1.50	0.18	0.09	1.77	0.00	0.00	0.00	0.	0.00
182	4.600	27.00	0.00	0.00	0.00	6.55	26.12	0.00	26.12	0.00	1.50	0.18	0.09	1.77	0.00	0.00	0.00	0.	0.00

FINAL REPORT Bayou Poydras #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 4 Bayou Poydras #2 Calibration Simulation for Upper Terrebonne model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
183	UPR RCH	0.06648	27.00	0.00	0.00	0.00	6.55	26.12	0.00	26.12	0.00	1.50	0.18	0.09	0.00	0.00	0.00	0.00
EACH	INCR	0.00410	26.00	0.00	0.00	0.00	4.00	38.00	0.00		2.80	0.00	1.00	0.00	0.00	0.00		
186	WSTLD	0.00175	28.00	0.00	0.00	0.00	5.00	30.00	0.00	30.00	0.00	1.50	1.50	2.00	0.00	0.00	0.00	0.00
187	WSTLD	0.00053	28.00	0.00	0.00	0.00	5.00	30.00	0.00	30.00	0.00	1.50	1.50	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m≥/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m≥	VOLUME AREA m≤	AREA m≤	PRISM m≥	SURFACE VELO m/s	X-SECT VELO m≤/s	TIDAL m/s	TIDAL	DISPRSN	MEAN
183	4.60	4.50	0.07058	0.7	0.01471	0.08	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.015		
184	4.50	4.40	0.07469	0.7	0.01556	0.07	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.016		
185	4.40	4.30	0.07879	0.6	0.01642	0.07	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.016		
186	4.30	4.20	0.08465	2.7	0.01763	0.07	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.018		
187	4.20	4.10	0.08928	3.1	0.01860	0.06	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.019		
188	4.10	4.00	0.09339	3.0	0.01946	0.06	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.019		
189	4.00	3.90	0.09749	2.9	0.02031	0.06	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.020		
190	3.90	3.80	0.10159	2.7	0.02117	0.05	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.021		
191	3.80	3.70	0.10570	2.6	0.02202	0.05	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.022		
192	3.70	3.60	0.10980	2.5	0.02288	0.05	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.023		
193	3.60	3.50	0.11391	2.4	0.02373	0.05	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.024		
194	3.50	3.40	0.11801	2.4	0.02459	0.05	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.025		
195	3.40	3.30	0.12212	2.3	0.02544	0.05	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.025		
196	3.30	3.20	0.12622	2.2	0.02630	0.04	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.026		
197	3.20	3.10	0.13033	2.1	0.02715	0.04	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.027		
198	3.10	3.00	0.13443	2.1	0.02801	0.04	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.028		
199	3.00	2.90	0.13853	2.0	0.02886	0.04	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.029		
200	2.90	2.80	0.14264	2.0	0.02972	0.04	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.030		
201	2.80	2.70	0.14674	1.9	0.03057	0.04	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.031		
202	2.70	2.60	0.15085	1.8	0.03143	0.04	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.031		
203	2.60	2.50	0.15495	1.8	0.03228	0.04	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.032		
204	2.50	2.40	0.15906	1.8	0.03314	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.033		
205	2.40	2.30	0.16316	1.7	0.03399	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.034		
206	2.30	2.20	0.16726	1.7	0.03485	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.035		
207	2.20	2.10	0.17137	1.6	0.03570	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.036		
208	2.10	2.00	0.17547	1.6	0.03656	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.037		
209	2.00	1.90	0.17958	1.6	0.03741	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.037		
210	1.90	1.80	0.18368	1.5	0.03827	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.038		
211	1.80	1.70	0.18779	1.5	0.03912	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.039		
212	1.70	1.60	0.19189	1.5	0.03998	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.040		

213	1.60	1.50	0.19599	1.4	0.04083	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.041
214	1.50	1.40	0.20010	1.4	0.04169	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.042
215	1.40	1.30	0.20420	1.4	0.04254	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.043
216	1.30	1.20	0.20831	1.3	0.04340	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.043
217	1.20	1.10	0.21241	1.3	0.04425	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.044
218	1.10	1.00	0.21652	1.3	0.04511	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.045
219	1.00	0.90	0.22062	1.3	0.04596	0.03	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.046
220	0.90	0.80	0.22473	1.2	0.04682	0.02	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.047
221	0.80	0.70	0.22883	1.2	0.04767	0.02	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.048
222	0.70	0.60	0.23293	1.2	0.04853	0.02	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.049
223	0.60	0.50	0.23704	1.2	0.04938	0.02	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.049
224	0.50	0.40	0.24114	1.2	0.05024	0.02	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.050
225	0.40	0.30	0.24525	1.1	0.05109	0.02	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.051
226	0.30	0.20	0.24935	1.1	0.05195	0.02	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.052
227	0.20	0.10	0.25346	1.1	0.05280	0.02	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.053
228	0.10	0.00	0.25756	1.1	0.05366	0.02	0.60	8.00	480.00	800.00	4.80	0.00	0.000	0.000	0.054
TOT					1.77			22080.00	36800.00						
AVG					0.0302		0.60	8.00			4.80				
CUM					2.96										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O. 1/da	REAER RATE 1/da	DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORGN SETT **	ORGN DECAY **	NH3 SRCE 1/da	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM	NCM SETT
183	4.500	7.96	1.33	0.14	0.00	0.00	0.00	0.00	0.00	1.40	1.40	1.40	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184	4.400	7.96	1.33	0.14	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.40	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
185	4.300	7.95	1.33	0.14	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
186	4.200	7.94	1.34	0.14	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
187	4.100	7.94	1.34	0.14	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	4.000	7.93	1.35	0.14	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
189	3.900	7.92	1.38	0.14	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	3.800	7.92	1.41	0.14	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
191	3.700	7.91	1.44	0.14	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
192	3.600	7.91	1.47	0.14	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
193	3.500	7.90	1.50	0.14	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
194	3.400	7.89	1.53	0.14	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195	3.300	7.89	1.56	0.14	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
196	3.200	7.88	1.58	0.14	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	3.100	7.88	1.61	0.14	0.00	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198	3.000	7.87	1.64	0.14	0.00	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199	2.900	7.86	1.66	0.14	0.00	0.00	0.00	0.00	0.00	1.47	1.47	1.47	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	2.800	7.86	1.69	0.14	0.00	0.00	0.00	0.00	0.00	1.47	1.47	1.47	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
201	2.700	7.85	1.71	0.14	0.00	0.00	0.00	0.00	0.00	1.47	1.47	1.47	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202	2.600	7.85	1.74	0.14	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
203	2.500	7.84	1.76	0.14	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
204	2.400	7.83	1.79	0.14	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
205	2.300	7.83	1.81	0.14	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
206	2.200	7.82	1.84	0.14	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

207	2.100	7.82	1.86	0.14	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	2.000	7.81	1.88	0.15	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
209	1.900	7.80	1.91	0.15	0.00	0.00	0.00	0.00	0.00	1.51	1.51	1.51	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210	1.800	7.80	1.93	0.15	0.00	0.00	0.00	0.00	0.00	1.51	1.51	1.51	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
211	1.700	7.79	1.95	0.15	0.00	0.00	0.00	0.00	0.00	1.51	1.51	1.51	0.02	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212	1.600	7.79	1.98	0.15	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
213	1.500	7.78	2.00	0.15	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
214	1.400	7.77	2.02	0.15	0.00	0.00	0.00	0.00	0.00	1.53	1.53	1.53	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
215	1.300	7.77	2.04	0.15	0.00	0.00	0.00	0.00	0.00	1.53	1.53	1.53	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
216	1.200	7.76	2.06	0.15	0.00	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217	1.100	7.76	2.09	0.15	0.00	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
218	1.000	7.75	2.11	0.15	0.00	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
219	0.900	7.74	2.13	0.15	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220	0.800	7.74	2.15	0.15	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221	0.700	7.73	2.17	0.15	0.00	0.00	0.00	0.00	0.00	1.56	1.56	1.56	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
222	0.600	7.73	2.19	0.15	0.00	0.00	0.00	0.00	0.00	1.56	1.56	1.56	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	0.500	7.72	2.21	0.15	0.00	0.00	0.00	0.00	0.00	1.56	1.56	1.56	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
224	0.400	7.71	2.23	0.15	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225	0.300	7.71	2.26	0.15	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226	0.200	7.70	2.28	0.15	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
227	0.100	7.70	2.30	0.15	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
228	0.000	7.69	2.32	0.15	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 1.55 0.10 0.00 0.00 0.00 0.00 0.00 0.90 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO	COLI #/100mL	NCM
183	4.500	27.04	0.00	0.00	0.00	6.10	26.52	0.00	26.52	0.00	1.57	0.17	0.14	1.88	0.00	0.00	0.00	0.	0.00
184	4.400	27.09	0.00	0.00	0.00	5.74	26.88	0.00	26.88	0.00	1.64	0.16	0.20	1.99	0.00	0.00	0.00	0.	0.00
185	4.300	27.13	0.00	0.00	0.00	5.44	27.19	0.00	27.19	0.00	1.69	0.15	0.24	2.08	0.00	0.00	0.00	0.	0.00
186	4.200	27.17	0.00	0.00	0.00	5.18	27.52	0.00	27.52	0.00	1.74	0.17	0.32	2.23	0.00	0.00	0.00	0.	0.00
187	4.100	27.22	0.00	0.00	0.00	4.97	27.78	0.00	27.78	0.00	1.79	0.17	0.36	2.32	0.00	0.00	0.00	0.	0.00
188	4.000	27.26	0.00	0.00	0.00	4.79	28.00	0.00	28.00	0.00	1.83	0.16	0.39	2.38	0.00	0.00	0.00	0.	0.00
189	3.900	27.30	0.00	0.00	0.00	4.65	28.19	0.00	28.19	0.00	1.87	0.15	0.42	2.44	0.00	0.00	0.00	0.	0.00
190	3.800	27.35	0.00	0.00	0.00	4.52	28.37	0.00	28.37	0.00	1.90	0.15	0.45	2.50	0.00	0.00	0.00	0.	0.00
191	3.700	27.39	0.00	0.00	0.00	4.42	28.53	0.00	28.53	0.00	1.93	0.14	0.47	2.55	0.00	0.00	0.00	0.	0.00
192	3.600	27.43	0.00	0.00	0.00	4.34	28.68	0.00	28.68	0.00	1.96	0.14	0.49	2.59	0.00	0.00	0.00	0.	0.00
193	3.500	27.48	0.00	0.00	0.00	4.27	28.82	0.00	28.82	0.00	1.99	0.13	0.51	2.64	0.00	0.00	0.00	0.	0.00
194	3.400	27.52	0.00	0.00	0.00	4.21	28.95	0.00	28.95	0.00	2.02	0.13	0.53	2.68	0.00	0.00	0.00	0.	0.00
195	3.300	27.57	0.00	0.00	0.00	4.16	29.07	0.00	29.07	0.00	2.04	0.12	0.55	2.71	0.00	0.00	0.00	0.	0.00
196	3.200	27.61	0.00	0.00	0.00	4.12	29.17	0.00	29.17	0.00	2.06	0.12	0.57	2.75	0.00	0.00	0.00	0.	0.00
197	3.100	27.65	0.00	0.00	0.00	4.09	29.27	0.00	29.27	0.00	2.09	0.12	0.58	2.78	0.00	0.00	0.00	0.	0.00
198	3.000	27.70	0.00	0.00	0.00	4.06	29.37	0.00	29.37	0.00	2.11	0.11	0.60	2.81	0.00	0.00	0.00	0.	0.00
199	2.900	27.74	0.00	0.00	0.00	4.04	29.46	0.00	29.46	0.00	2.12	0.11	0.61	2.84	0.00	0.00	0.00	0.	0.00
200	2.800	27.78	0.00	0.00	0.00	4.03	29.54	0.00	29.54	0.00	2.14	0.11	0.62	2.87	0.00	0.00	0.00	0.	0.00
201	2.700	27.83	0.00	0.00	0.00	4.02	29.61	0.00	29.61	0.00	2.16	0.11	0.63	2.90	0.00	0.00	0.00	0.	0.00

202	2.600	27.87	0.00	0.00	0.00	4.01	29.68	0.00	29.68	0.00	2.17	0.10	0.64	2.92	0.00	0.00	0.00	0.	0.00
203	2.500	27.91	0.00	0.00	0.00	4.00	29.75	0.00	29.75	0.00	2.19	0.10	0.66	2.94	0.00	0.00	0.00	0.	0.00
204	2.400	27.96	0.00	0.00	0.00	4.00	29.81	0.00	29.81	0.00	2.20	0.10	0.67	2.97	0.00	0.00	0.00	0.	0.00
205	2.300	28.00	0.00	0.00	0.00	4.00	29.87	0.00	29.87	0.00	2.22	0.10	0.68	2.99	0.00	0.00	0.00	0.	0.00
206	2.200	28.04	0.00	0.00	0.00	4.00	29.93	0.00	29.93	0.00	2.23	0.10	0.68	3.01	0.00	0.00	0.00	0.	0.00
207	2.100	28.09	0.00	0.00	0.00	4.01	29.98	0.00	29.98	0.00	2.24	0.09	0.69	3.03	0.00	0.00	0.00	0.	0.00
208	2.000	28.13	0.00	0.00	0.00	4.01	30.03	0.00	30.03	0.00	2.25	0.09	0.70	3.04	0.00	0.00	0.00	0.	0.00
209	1.900	28.17	0.00	0.00	0.00	4.02	30.08	0.00	30.08	0.00	2.26	0.09	0.71	3.06	0.00	0.00	0.00	0.	0.00
210	1.800	28.22	0.00	0.00	0.00	4.02	30.12	0.00	30.12	0.00	2.27	0.09	0.72	3.08	0.00	0.00	0.00	0.	0.00
211	1.700	28.26	0.00	0.00	0.00	4.03	30.16	0.00	30.16	0.00	2.28	0.09	0.72	3.09	0.00	0.00	0.00	0.	0.00
212	1.600	28.30	0.00	0.00	0.00	4.04	30.20	0.00	30.20	0.00	2.29	0.09	0.73	3.11	0.00	0.00	0.00	0.	0.00
213	1.500	28.35	0.00	0.00	0.00	4.05	30.24	0.00	30.24	0.00	2.30	0.09	0.74	3.12	0.00	0.00	0.00	0.	0.00
214	1.400	28.39	0.00	0.00	0.00	4.06	30.28	0.00	30.28	0.00	2.31	0.09	0.74	3.14	0.00	0.00	0.00	0.	0.00
215	1.300	28.43	0.00	0.00	0.00	4.07	30.31	0.00	30.31	0.00	2.32	0.08	0.75	3.15	0.00	0.00	0.00	0.	0.00
216	1.200	28.48	0.00	0.00	0.00	4.08	30.34	0.00	30.34	0.00	2.33	0.08	0.75	3.16	0.00	0.00	0.00	0.	0.00
217	1.100	28.52	0.00	0.00	0.00	4.09	30.37	0.00	30.37	0.00	2.33	0.08	0.76	3.18	0.00	0.00	0.00	0.	0.00
218	1.000	28.57	0.00	0.00	0.00	4.10	30.40	0.00	30.40	0.00	2.34	0.08	0.76	3.19	0.00	0.00	0.00	0.	0.00
219	0.900	28.61	0.00	0.00	0.00	4.11	30.43	0.00	30.43	0.00	2.35	0.08	0.77	3.20	0.00	0.00	0.00	0.	0.00
220	0.800	28.65	0.00	0.00	0.00	4.12	30.45	0.00	30.45	0.00	2.36	0.08	0.77	3.21	0.00	0.00	0.00	0.	0.00
221	0.700	28.70	0.00	0.00	0.00	4.14	30.48	0.00	30.48	0.00	2.36	0.08	0.78	3.22	0.00	0.00	0.00	0.	0.00
222	0.600	28.74	0.00	0.00	0.00	4.15	30.50	0.00	30.50	0.00	2.37	0.08	0.78	3.23	0.00	0.00	0.00	0.	0.00
223	0.500	28.78	0.00	0.00	0.00	4.16	30.53	0.00	30.53	0.00	2.37	0.08	0.79	3.24	0.00	0.00	0.00	0.	0.00
224	0.400	28.83	0.00	0.00	0.00	4.17	30.55	0.00	30.55	0.00	2.38	0.08	0.79	3.25	0.00	0.00	0.00	0.	0.00
225	0.300	28.87	0.00	0.00	0.00	4.18	30.57	0.00	30.57	0.00	2.39	0.08	0.80	3.26	0.00	0.00	0.00	0.	0.00
226	0.200	28.91	0.00	0.00	0.00	4.19	30.59	0.00	30.59	0.00	2.39	0.08	0.80	3.27	0.00	0.00	0.00	0.	0.00
227	0.100	28.96	0.00	0.00	0.00	4.20	30.61	0.00	30.61	0.00	2.40	0.08	0.80	3.28	0.00	0.00	0.00	0.	0.00
228	0.000	29.00	0.00	0.00	0.00	4.21	30.63	0.00	30.63	0.00	2.40	0.07	0.81	3.29	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Model for Upper Terrebonne
Bayou Poydras #1 Calibration Simulation for Upper Terrebonne model

TRAVEL TIME = 2.96 DAYS

MAXIMUM EFFLUENT = 3.12 PERCENT

FLOW = 0.06597 TO 0.25756 m≥/s
DISPERSION = 0.0000 TO 0.0000 m≤/s
VELOCITY = 0.01471 TO 0.05540 m/s
DEPTH = 0.30 TO 0.60 m
WIDTH = 4.00 TO 8.00 m

BOD DECAY = 0.08 TO 0.15 per day
NH3 DECAY = 0.03 TO 0.36 per day
SOD = 0.86 TO 1.59 g/m≤/d
NH3 SOURCE = 0.00 TO 0.00 g/m≤/d
REAERATION = 1.33 TO 6.43 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.02 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 27.00 TO 29.00 deg C

DISSOLVED OXYGEN = 1.11 TO 6.55 mg/L
FINAL REPORT Chamberlin Canal #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 6 Chamberlin Canal #1 Calibration Simulation for Upper Terrebonne model
********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
272	HDWTR	0.00050	26.30	0.00	0.00	0.00	2.10	9.28	0.00	9.28	0.00	1.18	0.10	0.07	0.00	0.00	0.00	0.00
EACH	INCR	0.00005	26.00	0.00	0.00	0.00	4.00	25.00	0.00			2.40	0.00	0.05	0.00	0.00	0.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m≥/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME AREA m≥	SURFACE AREA m≤	X-SECT PRISM m≥	TIDAL VELO m/s	TIDAL VELO m≤/s	DISPRSN m/s	MEAN
272	7.50	7.40	0.00055	0.0	0.00273	0.42	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.003
273	7.40	7.30	0.00059	0.0	0.00295	0.39	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.003
274	7.30	7.20	0.00064	0.0	0.00318	0.36	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.003
275	7.20	7.10	0.00068	0.0	0.00341	0.34	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.003
276	7.10	7.00	0.00073	0.0	0.00364	0.32	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.004
277	7.00	6.90	0.00077	0.0	0.00386	0.30	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.004
278	6.90	6.80	0.00082	0.0	0.00409	0.28	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.004
279	6.80	6.70	0.00086	0.0	0.00432	0.27	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.004
280	6.70	6.60	0.00091	0.0	0.00455	0.25	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.005
281	6.60	6.50	0.00095	0.0	0.00477	0.24	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.005
282	6.50	6.40	0.00100	0.0	0.00500	0.23	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.005
283	6.40	6.30	0.00105	0.0	0.00523	0.22	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.005
284	6.30	6.20	0.00109	0.0	0.00545	0.21	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.005
285	6.20	6.10	0.00114	0.0	0.00568	0.20	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.006
286	6.10	6.00	0.00118	0.0	0.00591	0.20	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.006
287	6.00	5.90	0.00123	0.0	0.00614	0.19	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.006
288	5.90	5.80	0.00127	0.0	0.00636	0.18	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.006
289	5.80	5.70	0.00132	0.0	0.00659	0.18	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.007
290	5.70	5.60	0.00136	0.0	0.00682	0.17	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.007
291	5.60	5.50	0.00141	0.0	0.00705	0.16	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.007
292	5.50	5.40	0.00145	0.0	0.00727	0.16	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.007
293	5.40	5.30	0.00150	0.0	0.00750	0.15	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.008
294	5.30	5.20	0.00155	0.0	0.00773	0.15	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.008
295	5.20	5.10	0.00159	0.0	0.00795	0.15	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.008
296	5.10	5.00	0.00164	0.0	0.00818	0.14	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.008
297	5.00	4.90	0.00168	0.0	0.00841	0.14	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.008
298	4.90	4.80	0.00173	0.0	0.00864	0.13	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.009
299	4.80	4.70	0.00177	0.0	0.00886	0.13	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.009
300	4.70	4.60	0.00182	0.0	0.00909	0.13	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.009
301	4.60	4.50	0.00186	0.0	0.00932	0.12	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.009
302	4.50	4.40	0.00191	0.0	0.00955	0.12	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.010
303	4.40	4.30	0.00195	0.0	0.00977	0.12	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.010
304	4.30	4.20	0.00200	0.0	0.01000	0.12	0.10	2.00	20.00	200.00	0.20	0.00	0.000	0.000	0.010

TOT							6.89					660.00	6600.00												
AVG							0.0055		0.10	2.00				0.20											
CUM							6.89																		

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	BOD#2 DECAY	BOD#2 SETT	ABOD#2 DECAY	BKGD SOD	FULL SOD	CORR SOD	ORGN DECAY	ORGN SETT	NH3 DECAY	NH3 SRCE	DENIT RATE	PO4 SRCE	ALG PROD	MAC PROD	COLI DECAY	NCM DECAY	NCM SETT
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da	
272	7.400	8.06	7.90	0.17	0.00	0.00	0.00	0.00	0.00	1.94	1.94	1.94	0.01	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273	7.300	8.05	7.91	0.17	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.01	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	7.200	8.03	7.94	0.18	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.01	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
275	7.100	8.02	8.23	0.18	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.01	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
276	7.000	8.01	8.51	0.18	0.00	0.00	0.00	0.00	0.00	1.98	1.98	1.98	0.01	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
277	6.900	8.00	8.79	0.18	0.00	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.01	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
278	6.800	7.99	9.05	0.18	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.01	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
279	6.700	7.97	9.32	0.18	0.00	0.00	0.00	0.00	0.00	2.01	2.01	2.01	0.01	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
280	6.600	7.96	9.57	0.18	0.00	0.00	0.00	0.00	0.00	2.02	2.02	2.02	0.01	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
281	6.500	7.95	9.82	0.18	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.01	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
282	6.400	7.94	10.07	0.18	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.01	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
283	6.300	7.93	10.31	0.18	0.00	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.01	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
284	6.200	7.92	10.55	0.18	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.01	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	6.100	7.90	10.78	0.18	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.01	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	6.000	7.89	11.01	0.18	0.00	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.01	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
287	5.900	7.88	11.24	0.18	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.01	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
288	5.800	7.87	11.46	0.19	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.01	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289	5.700	7.86	11.57	0.19	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.01	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
290	5.600	7.85	11.59	0.19	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.01	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
291	5.500	7.84	11.60	0.19	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.01	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292	5.400	7.82	11.62	0.19	0.00	0.00	0.00	0.00	0.00	2.15	2.15	2.15	0.01	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	5.300	7.81	11.64	0.19	0.00	0.00	0.00	0.00	0.00	2.17	2.17	2.17	0.01	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
294	5.200	7.80	11.65	0.19	0.00	0.00	0.00	0.00	0.00	2.18	2.18	2.18	0.01	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
295	5.100	7.79	11.67	0.19	0.00	0.00	0.00	0.00	0.00	2.19	2.19	2.19	0.01	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
296	5.000	7.78	11.69	0.19	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.01	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
297	4.900	7.77	11.70	0.19	0.00	0.00	0.00	0.00	0.00	2.21	2.21	2.21	0.01	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298	4.800	7.76	11.72	0.19	0.00	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.01	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	4.700	7.75	11.74	0.19	0.00	0.00	0.00	0.00	0.00	2.23	2.23	2.23	0.01	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	4.600	7.74	11.75	0.19	0.00	0.00	0.00	0.00	0.00	2.24	2.24	2.24	0.01	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
301	4.500	7.72	11.77	0.19	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.01	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
302	4.400	7.71	11.79	0.20	0.00	0.00	0.00	0.00	0.00	2.27	2.27	2.27	0.01	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
303	4.300	7.70	11.80	0.20	0.00	0.00	0.00	0.00	0.00	2.28	2.28	2.28	0.01	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
304	4.200	7.69	11.82	0.20	0.00	0.00	0.00	0.00	0.00	2.29	2.29	2.29	0.01	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			9.16	0.13	0.00	0.00	0.00	0.00	0.00	1.30			0.01	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS #/100mL	CHL A	MACRO	COLI	NCM

272	7.400	26.38	0.00	0.00	0.00	4.65	9.86	0.00	9.86	0.00	1.28	0.09	0.08	1.44	0.00	0.00	0.00	0.	0.00
273	7.300	26.46	0.00	0.00	0.00	5.16	10.32	0.00	10.32	0.00	1.36	0.08	0.09	1.52	0.00	0.00	0.00	0.	0.00
274	7.200	26.55	0.00	0.00	0.00	5.25	10.68	0.00	10.68	0.00	1.42	0.07	0.09	1.59	0.00	0.00	0.00	0.	0.00
275	7.100	26.63	0.00	0.00	0.00	5.32	10.98	0.00	10.98	0.00	1.48	0.06	0.10	1.64	0.00	0.00	0.00	0.	0.00
276	7.000	26.71	0.00	0.00	0.00	5.38	11.23	0.00	11.23	0.00	1.54	0.06	0.10	1.69	0.00	0.00	0.00	0.	0.00
277	6.900	26.79	0.00	0.00	0.00	5.44	11.43	0.00	11.43	0.00	1.58	0.06	0.10	1.74	0.00	0.00	0.00	0.	0.00
278	6.800	26.87	0.00	0.00	0.00	5.49	11.60	0.00	11.60	0.00	1.62	0.05	0.10	1.78	0.00	0.00	0.00	0.	0.00
279	6.700	26.95	0.00	0.00	0.00	5.53	11.74	0.00	11.74	0.00	1.66	0.05	0.10	1.81	0.00	0.00	0.00	0.	0.00
280	6.600	27.04	0.00	0.00	0.00	5.57	11.86	0.00	11.86	0.00	1.69	0.05	0.11	1.85	0.00	0.00	0.00	0.	0.00
281	6.500	27.12	0.00	0.00	0.00	5.61	11.96	0.00	11.96	0.00	1.72	0.05	0.11	1.87	0.00	0.00	0.00	0.	0.00
282	6.400	27.20	0.00	0.00	0.00	5.64	12.05	0.00	12.05	0.00	1.74	0.05	0.11	1.90	0.00	0.00	0.00	0.	0.00
283	6.300	27.28	0.00	0.00	0.00	5.67	12.13	0.00	12.13	0.00	1.77	0.05	0.11	1.92	0.00	0.00	0.00	0.	0.00
284	6.200	27.36	0.00	0.00	0.00	5.70	12.19	0.00	12.19	0.00	1.79	0.05	0.11	1.95	0.00	0.00	0.00	0.	0.00
285	6.100	27.45	0.00	0.00	0.00	5.72	12.25	0.00	12.25	0.00	1.81	0.04	0.11	1.97	0.00	0.00	0.00	0.	0.00
286	6.000	27.53	0.00	0.00	0.00	5.74	12.29	0.00	12.29	0.00	1.83	0.04	0.11	1.98	0.00	0.00	0.00	0.	0.00
287	5.900	27.61	0.00	0.00	0.00	5.77	12.34	0.00	12.34	0.00	1.85	0.04	0.11	2.00	0.00	0.00	0.00	0.	0.00
288	5.800	27.69	0.00	0.00	0.00	5.78	12.37	0.00	12.37	0.00	1.86	0.04	0.11	2.02	0.00	0.00	0.00	0.	0.00
289	5.700	27.77	0.00	0.00	0.00	5.79	12.40	0.00	12.40	0.00	1.88	0.04	0.11	2.03	0.00	0.00	0.00	0.	0.00
290	5.600	27.85	0.00	0.00	0.00	5.78	12.43	0.00	12.43	0.00	1.89	0.04	0.11	2.05	0.00	0.00	0.00	0.	0.00
291	5.500	27.94	0.00	0.00	0.00	5.76	12.45	0.00	12.45	0.00	1.90	0.04	0.11	2.06	0.00	0.00	0.00	0.	0.00
292	5.400	28.02	0.00	0.00	0.00	5.74	12.47	0.00	12.47	0.00	1.92	0.04	0.11	2.07	0.00	0.00	0.00	0.	0.00
293	5.300	28.10	0.00	0.00	0.00	5.73	12.49	0.00	12.49	0.00	1.93	0.04	0.11	2.08	0.00	0.00	0.00	0.	0.00
294	5.200	28.18	0.00	0.00	0.00	5.71	12.50	0.00	12.50	0.00	1.94	0.04	0.12	2.09	0.00	0.00	0.00	0.	0.00
295	5.100	28.26	0.00	0.00	0.00	5.69	12.51	0.00	12.51	0.00	1.95	0.04	0.12	2.10	0.00	0.00	0.00	0.	0.00
296	5.000	28.35	0.00	0.00	0.00	5.67	12.52	0.00	12.52	0.00	1.96	0.04	0.12	2.11	0.00	0.00	0.00	0.	0.00
297	4.900	28.43	0.00	0.00	0.00	5.65	12.53	0.00	12.53	0.00	1.96	0.04	0.12	2.12	0.00	0.00	0.00	0.	0.00
298	4.800	28.51	0.00	0.00	0.00	5.63	12.53	0.00	12.53	0.00	1.97	0.04	0.12	2.13	0.00	0.00	0.00	0.	0.00
299	4.700	28.59	0.00	0.00	0.00	5.62	12.54	0.00	12.54	0.00	1.98	0.04	0.12	2.14	0.00	0.00	0.00	0.	0.00
300	4.600	28.67	0.00	0.00	0.00	5.60	12.54	0.00	12.54	0.00	1.99	0.04	0.12	2.15	0.00	0.00	0.00	0.	0.00
301	4.500	28.75	0.00	0.00	0.00	5.58	12.54	0.00	12.54	0.00	2.00	0.04	0.12	2.15	0.00	0.00	0.00	0.	0.00
302	4.400	28.84	0.00	0.00	0.00	5.56	12.54	0.00	12.54	0.00	2.00	0.04	0.12	2.16	0.00	0.00	0.00	0.	0.00
303	4.300	28.92	0.00	0.00	0.00	5.54	12.54	0.00	12.54	0.00	2.01	0.04	0.12	2.17	0.00	0.00	0.00	0.	0.00
304	4.200	29.00	0.00	0.00	0.00	5.53	12.54	0.00	12.54	0.00	2.01	0.04	0.12	2.17	0.00	0.00	0.00	0.	0.00

FINAL REPORT Chamberlin Canal #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 7 Chamberlin Canal #2 Calibration Simulation for Upper Terrebonne model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
305	UPR RCH	0.00200	29.00	0.00	0.00	0.00	5.53	12.54	0.00	12.54	0.00	2.01	0.04	0.12	0.00	0.00	0.00	0.00
EACH	INCR	0.00012	26.00	0.00	0.00	0.00	4.00	25.00	0.00		2.40	0.00	0.05	0.00	0.00	0.00		
305	WSTLD	0.00215	27.00	0.00	0.00	0.00	5.00	30.00	0.00	30.00	0.00	2.00	1.50	0.50	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m≥/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m≥	VOLUME AREA m≤	SURFACE AREA m≤	X-SECT PRISM m≥	TIDAL VELO m/s	TIDAL VELO m≤/s	DISPRSN m/s	MEAN

305	4.20	4.10	0.00427	50.4	0.00285	0.41	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.003
306	4.10	4.00	0.00439	49.0	0.00293	0.40	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.003
307	4.00	3.90	0.00451	47.7	0.00300	0.39	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.003
308	3.90	3.80	0.00463	46.5	0.00308	0.38	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.003
309	3.80	3.70	0.00475	45.3	0.00316	0.37	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.003
310	3.70	3.60	0.00486	44.2	0.00324	0.36	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.003
311	3.60	3.50	0.00498	43.1	0.00332	0.35	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.003
312	3.50	3.40	0.00510	42.1	0.00340	0.34	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.003
313	3.40	3.30	0.00522	41.2	0.00348	0.33	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.003
314	3.30	3.20	0.00534	40.3	0.00356	0.33	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.004
315	3.20	3.10	0.00546	39.4	0.00364	0.32	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.004
316	3.10	3.00	0.00558	38.5	0.00372	0.31	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.004
317	3.00	2.90	0.00570	37.7	0.00380	0.30	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.004
318	2.90	2.80	0.00582	37.0	0.00388	0.30	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.004
319	2.80	2.70	0.00594	36.2	0.00396	0.29	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.004
320	2.70	2.60	0.00605	35.5	0.00404	0.29	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.004
321	2.60	2.50	0.00617	34.8	0.00412	0.28	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.004
322	2.50	2.40	0.00629	34.2	0.00420	0.28	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.004
323	2.40	2.30	0.00641	33.5	0.00427	0.27	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.004
324	2.30	2.20	0.00653	32.9	0.00435	0.27	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.004
325	2.20	2.10	0.00665	32.3	0.00443	0.26	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.004
326	2.10	2.00	0.00677	31.8	0.00451	0.26	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
327	2.00	1.90	0.00689	31.2	0.00459	0.25	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
328	1.90	1.80	0.00701	30.7	0.00467	0.25	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
329	1.80	1.70	0.00713	30.2	0.00475	0.24	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
330	1.70	1.60	0.00725	29.7	0.00483	0.24	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
331	1.60	1.50	0.00736	29.2	0.00491	0.24	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
332	1.50	1.40	0.00748	28.7	0.00499	0.23	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
333	1.40	1.30	0.00760	28.3	0.00507	0.23	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
334	1.30	1.20	0.00772	27.8	0.00515	0.22	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
335	1.20	1.10	0.00784	27.4	0.00523	0.22	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
336	1.10	1.00	0.00796	27.0	0.00531	0.22	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
337	1.00	0.90	0.00808	26.6	0.00539	0.21	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
338	0.90	0.80	0.00820	26.2	0.00547	0.21	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.005
339	0.80	0.70	0.00832	25.9	0.00554	0.21	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.006
340	0.70	0.60	0.00844	25.5	0.00562	0.21	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.006
341	0.60	0.50	0.00855	25.1	0.00570	0.20	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.006
342	0.50	0.40	0.00867	24.8	0.00578	0.20	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.006
343	0.40	0.30	0.00879	24.5	0.00586	0.20	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.006
344	0.30	0.20	0.00891	24.1	0.00594	0.19	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.006
345	0.20	0.10	0.00903	23.8	0.00602	0.19	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.006
346	0.10	0.00	0.00915	23.5	0.00610	0.19	0.30	5.00	150.00	500.00	1.50	0.00	0.000	0.000	0.006
TOT				11.42				6300.00	21000.00						
AVG			0.0043		0.30	5.00				1.50					
CUM				18.31											

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

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

	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da	
305	4.100	7.68	2.76	0.20	0.00	0.00	0.00	0.00	0.00	2.30	2.30	2.30	0.01	0.00	0.36	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
306	4.000	7.68	2.76	0.20	0.00	0.00	0.00	0.00	0.00	2.31	2.31	2.31	0.01	0.00	0.35	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
307	3.900	7.67	2.77	0.20	0.00	0.00	0.00	0.00	0.00	2.32	2.32	2.32	0.01	0.00	0.35	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
308	3.800	7.66	2.77	0.20	0.00	0.00	0.00	0.00	0.00	2.32	2.32	2.32	0.01	0.00	0.35	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
309	3.700	7.65	2.77	0.20	0.00	0.00	0.00	0.00	0.00	2.33	2.33	2.33	0.01	0.00	0.35	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
310	3.600	7.65	2.77	0.20	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.01	0.00	0.36	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
311	3.500	7.64	2.78	0.20	0.00	0.00	0.00	0.00	0.00	2.35	2.35	2.35	0.01	0.00	0.36	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
312	3.400	7.63	2.78	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.01	0.00	0.36	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
313	3.300	7.63	2.78	0.20	0.00	0.00	0.00	0.00	0.00	2.36	2.36	2.36	0.01	0.00	0.37	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
314	3.200	7.62	2.78	0.20	0.00	0.00	0.00	0.00	0.00	2.37	2.37	2.37	0.01	0.00	0.37	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
315	3.100	7.61	2.79	0.20	0.00	0.00	0.00	0.00	0.00	2.38	2.38	2.38	0.01	0.00	0.38	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
316	3.000	7.60	2.79	0.20	0.00	0.00	0.00	0.00	0.00	2.39	2.39	2.39	0.01	0.00	0.38	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
317	2.900	7.60	2.79	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	2.40	0.01	0.00	0.38	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
318	2.800	7.59	2.80	0.20	0.00	0.00	0.00	0.00	0.00	2.40	2.40	2.40	0.01	0.00	0.39	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
319	2.700	7.58	2.80	0.20	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.01	0.00	0.39	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
320	2.600	7.57	2.80	0.20	0.00	0.00	0.00	0.00	0.00	2.42	2.42	2.42	0.01	0.00	0.39	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00
321	2.500	7.57	2.80	0.21	0.00	0.00	0.00	0.00	0.00	2.43	2.43	2.43	0.01	0.00	0.39	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
322	2.400	7.56	2.81	0.21	0.00	0.00	0.00	0.00	0.00	2.44	2.44	2.44	0.01	0.00	0.40	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
323	2.300	7.55	2.81	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	2.45	0.01	0.00	0.40	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
324	2.200	7.55	2.81	0.21	0.00	0.00	0.00	0.00	0.00	2.45	2.45	2.45	0.01	0.00	0.40	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00
325	2.100	7.54	2.81	0.21	0.00	0.00	0.00	0.00	0.00	2.46	2.46	2.46	0.01	0.00	0.41	0.00	0.00	0.00	2.63	0.00	0.00	0.00	0.00
326	2.000	7.53	2.82	0.21	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.01	0.00	0.41	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
327	1.900	7.52	2.82	0.21	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48	0.01	0.00	0.41	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
328	1.800	7.52	2.82	0.21	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.01	0.00	0.41	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00
329	1.700	7.51	2.82	0.21	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50	0.01	0.00	0.42	0.00	0.00	0.00	3.16	0.00	0.00	0.00	0.00
330	1.600	7.50	2.83	0.21	0.00	0.00	0.00	0.00	0.00	2.51	2.51	2.51	0.01	0.00	0.42	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00
331	1.500	7.50	2.83	0.21	0.00	0.00	0.00	0.00	0.00	2.51	2.51	2.51	0.01	0.00	0.42	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00
332	1.400	7.49	2.83	0.21	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	0.01	0.00	0.42	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
333	1.300	7.48	2.84	0.21	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.01	0.00	0.43	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00
334	1.200	7.48	2.84	0.21	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.01	0.00	0.43	0.00	0.00	0.00	3.84	0.00	0.00	0.00	0.00
335	1.100	7.47	2.84	0.21	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.01	0.00	0.43	0.00	0.00	0.00	3.98	0.00	0.00	0.00	0.00
336	1.000	7.46	2.84	0.21	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.01	0.00	0.44	0.00	0.00	0.00	4.12	0.00	0.00	0.00	0.00
337	0.900	7.45	2.85	0.21	0.00	0.00	0.00	0.00	0.00	2.57	2.57	2.57	0.01	0.00	0.44	0.00	0.00	0.00	4.26	0.00	0.00	0.00	0.00
338	0.800	7.45	2.85	0.21	0.00	0.00	0.00	0.00	0.00	2.58	2.58	2.58	0.01	0.00	0.44	0.00	0.00	0.00	4.40	0.00	0.00	0.00	0.00
339	0.700	7.44	2.85	0.21	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.01	0.00	0.44	0.00	0.00	0.00	4.54	0.00	0.00	0.00	0.00
340	0.600	7.43	2.85	0.22	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.01	0.00	0.45	0.00	0.00	0.00	4.68	0.00	0.00	0.00	0.00
341	0.500	7.43	2.86	0.22	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.01	0.00	0.45	0.00	0.00	0.00	4.82	0.00	0.00	0.00	0.00
342	0.400	7.42	2.86	0.22	0.00	0.00	0.00	0.00	0.00	2.61	2.61	2.61	0.01	0.00	0.45	0.00	0.00	0.00	4.97	0.00	0.00	0.00	0.00
343	0.300	7.41	2.86	0.22	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.01	0.00	0.45	0.00	0.00	0.00	5.11	0.00	0.00	0.00	0.00
344	0.200	7.41	2.86	0.22	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.01	0.00	0.46	0.00	0.00	0.00	5.25	0.00	0.00	0.00	0.00
345	0.100	7.40	2.87	0.22	0.00	0.00	0.00	0.00	0.00	2.64	2.64	2.64	0.01	0.00	0.46	0.00	0.00	0.00	5.40	0.00	0.00	0.00	0.00
346	0.000	7.39	2.87	0.22	0.00	0.00	0.00	0.00	0.00	2.65	2.65	2.65	0.01	0.00	0.46	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.33	0.13	0.00	0.00	0.00	0.00	0.00	1.30			0.01	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS #/100mL	CHL A	MACRO	COLI	NCM
305	4.100	29.05	0.00	0.00	0.00	4.12	20.07	0.00	20.07	0.00	2.01	0.68	0.41	3.10	0.00	1.57	0.00	0.	0.00
306	4.000	29.11	0.00	0.00	0.00	3.70	18.74	0.00	18.74	0.00	2.01	0.59	0.47	3.08	0.00	3.14	0.00	0.	0.00
307	3.900	29.16	0.00	0.00	0.00	3.58	17.57	0.00	17.57	0.00	2.01	0.52	0.52	3.05	0.00	4.71	0.00	0.	0.00
308	3.800	29.22	0.00	0.00	0.00	3.60	16.53	0.00	16.53	0.00	2.01	0.45	0.56	3.03	0.00	6.29	0.00	0.	0.00
309	3.700	29.27	0.00	0.00	0.00	3.67	15.60	0.00	15.60	0.00	2.01	0.40	0.59	3.00	0.00	7.86	0.00	0.	0.00
310	3.600	29.33	0.00	0.00	0.00	3.76	14.78	0.00	14.78	0.00	2.01	0.35	0.61	2.98	0.00	9.43	0.00	0.	0.00
311	3.500	29.38	0.00	0.00	0.00	3.85	14.05	0.00	14.05	0.00	2.01	0.31	0.62	2.95	0.00	11.00	0.00	0.	0.00
312	3.400	29.44	0.00	0.00	0.00	3.94	13.39	0.00	13.39	0.00	2.01	0.28	0.63	2.92	0.00	12.57	0.00	0.	0.00
313	3.300	29.49	0.00	0.00	0.00	4.03	12.80	0.00	12.80	0.00	2.02	0.25	0.63	2.89	0.00	14.14	0.00	0.	0.00
314	3.200	29.55	0.00	0.00	0.00	4.11	12.27	0.00	12.27	0.00	2.02	0.23	0.62	2.86	0.00	15.71	0.00	0.	0.00
315	3.100	29.60	0.00	0.00	0.00	4.18	11.79	0.00	11.79	0.00	2.02	0.20	0.61	2.83	0.00	17.29	0.00	0.	0.00
316	3.000	29.66	0.00	0.00	0.00	4.26	11.35	0.00	11.35	0.00	2.02	0.19	0.60	2.80	0.00	18.86	0.00	0.	0.00
317	2.900	29.71	0.00	0.00	0.00	4.32	10.96	0.00	10.96	0.00	2.02	0.17	0.58	2.77	0.00	20.43	0.00	0.	0.00
318	2.800	29.77	0.00	0.00	0.00	4.39	10.60	0.00	10.60	0.00	2.02	0.16	0.56	2.74	0.00	22.00	0.00	0.	0.00
319	2.700	29.82	0.00	0.00	0.00	4.45	10.28	0.00	10.28	0.00	2.02	0.14	0.54	2.70	0.00	23.57	0.00	0.	0.00
320	2.600	29.88	0.00	0.00	0.00	4.51	9.98	0.00	9.98	0.00	2.02	0.13	0.52	2.67	0.00	25.14	0.00	0.	0.00
321	2.500	29.93	0.00	0.00	0.00	4.56	9.71	0.00	9.71	0.00	2.02	0.12	0.49	2.64	0.00	26.71	0.00	0.	0.00
322	2.400	29.99	0.00	0.00	0.00	4.62	9.46	0.00	9.46	0.00	2.02	0.12	0.47	2.60	0.00	28.29	0.00	0.	0.00
323	2.300	30.04	0.00	0.00	0.00	4.67	9.24	0.00	9.24	0.00	2.02	0.11	0.44	2.57	0.00	29.86	0.00	0.	0.00
324	2.200	30.10	0.00	0.00	0.00	4.72	9.03	0.00	9.03	0.00	2.02	0.10	0.41	2.53	0.00	31.43	0.00	0.	0.00
325	2.100	30.15	0.00	0.00	0.00	4.76	8.84	0.00	8.84	0.00	2.02	0.10	0.38	2.50	0.00	33.00	0.00	0.	0.00
326	2.000	30.20	0.00	0.00	0.00	4.81	8.66	0.00	8.66	0.00	2.02	0.09	0.35	2.46	0.00	34.57	0.00	0.	0.00
327	1.900	30.26	0.00	0.00	0.00	4.85	8.49	0.00	8.49	0.00	2.02	0.09	0.32	2.42	0.00	36.14	0.00	0.	0.00
328	1.800	30.31	0.00	0.00	0.00	4.90	8.34	0.00	8.34	0.00	2.02	0.08	0.28	2.39	0.00	37.71	0.00	0.	0.00
329	1.700	30.37	0.00	0.00	0.00	4.94	8.20	0.00	8.20	0.00	2.02	0.08	0.25	2.35	0.00	39.29	0.00	0.	0.00
330	1.600	30.42	0.00	0.00	0.00	4.98	8.07	0.00	8.07	0.00	2.02	0.08	0.21	2.31	0.00	40.86	0.00	0.	0.00
331	1.500	30.48	0.00	0.00	0.00	5.02	7.95	0.00	7.95	0.00	2.02	0.07	0.18	2.27	0.00	42.43	0.00	0.	0.00
332	1.400	30.53	0.00	0.00	0.00	5.06	7.84	0.00	7.84	0.00	2.02	0.07	0.14	2.23	0.00	44.00	0.00	0.	0.00
333	1.300	30.59	0.00	0.00	0.00	5.10	7.74	0.00	7.74	0.00	2.02	0.07	0.10	2.20	0.00	45.57	0.00	0.	0.00
334	1.200	30.64	0.00	0.00	0.00	5.14	7.64	0.00	7.64	0.00	2.02	0.07	0.07	2.16	0.00	47.14	0.00	0.	0.00
335	1.100	30.70	0.00	0.00	0.00	5.18	7.55	0.00	7.55	0.00	2.02	0.07	0.03	2.12	0.00	48.71	0.00	0.	0.00
336	1.000	30.75	0.00	0.00	0.00	5.22	7.46	0.00	7.46	0.00	2.02	0.06	0.00	2.09	0.00	50.29	0.00	0.	0.00
337	0.900	30.81	0.00	0.00	0.00	5.26	7.38	0.00	7.38	0.00	2.02	0.06	0.00	2.09	0.00	51.86	0.00	0.	0.00
338	0.800	30.86	0.00	0.00	0.00	5.29	7.31	0.00	7.31	0.00	2.02	0.06	0.00	2.09	0.00	53.43	0.00	0.	0.00
339	0.700	30.92	0.00	0.00	0.00	5.33	7.23	0.00	7.23	0.00	2.02	0.06	0.00	2.08	0.00	55.00	0.00	0.	0.00
340	0.600	30.97	0.00	0.00	0.00	5.37	7.17	0.00	7.17	0.00	2.02	0.06	0.00	2.08	0.00	56.57	0.00	0.	0.00
341	0.500	31.03	0.00	0.00	0.00	5.41	7.10	0.00	7.10	0.00	2.02	0.06	0.00	2.08	0.00	58.14	0.00	0.	0.00
342	0.400	31.08	0.00	0.00	0.00	5.44	7.05	0.00	7.05	0.00	2.02	0.06	0.00	2.08	0.00	59.71	0.00	0.	0.00
343	0.300	31.14	0.00	0.00	0.00	5.48	6.99	0.00	6.99	0.00	2.02	0.06	0.00	2.08	0.00	61.29	0.00	0.	0.00
344	0.200	31.19	0.00	0.00	0.00	5.51	6.94	0.00	6.94	0.00	2.02	0.06	0.00	2.08	0.00	62.86	0.00	0.	0.00
345	0.100	31.25	0.00	0.00	0.00	5.55	6.89	0.00	6.89	0.00	2.02	0.05	0.00	2.08	0.00	64.43	0.00	0.	0.00
346	0.000	31.30	0.00	0.00	0.00	5.59	6.84	0.00	6.84	0.00	2.02	0.05	0.00	2.08	0.00	66.00	0.00	0.	0.00

STREAM SUMMARY — LA-QUAL Model for Upper Terrebonne

Chamberlin Canal #1 — Calibration Simulation for Upper Terrebonne model

TRAVEL TIME = 18.31 DAYS

MAXIMUM EFFLUENT = 50.36 PERCENT

FLOW = 0.00055 TO 0.00915 m≥/s
DISPERSION = 0.0000 TO 0.0000 m≤/s
VELOCITY = 0.00273 TO 0.01000 m/s
DEPTH = 0.10 TO 0.30 m
WIDTH = 2.00 TO 5.00 m

BOD DECAY = 0.17 TO 0.22 per day
NH3 DECAY = 0.30 TO 0.46 per day
SOD = 1.94 TO 2.65 g/m≤/d
NH3 SOURCE = 0.00 TO 0.00 g/m≤/d
REAERATION = 2.76 TO 11.82 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.01 TO 0.01 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 26.38 TO 31.30 deg C
DISSOLVED OXYGEN = 3.58 TO 5.79 mg/L
FINAL REPORT Intracoastal Waterwa LA-QUAL Model for Upper Terrebonne
REACH NO. 9 Intracoastal Waterway #1 Calibration Simulation for Upper Terrebonne model
********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS	CHL A #/100mL	COLI	NCM
420	HDWTR	7.53000	29.80	0.00	0.00	0.00	7.40	2.20	0.00	2.20	0.00	1.10	0.03	1.70	0.00	0.00	0.00	0.00
428	WSTLD	0.00105	28.00	0.00	0.00	0.00	5.00	30.90	0.00	30.90	0.00	1.10	1.50	10.00	0.00	0.00	0.00	0.00
456	WSTLD	0.00031	28.00	0.00	0.00	0.00	5.00	20.00	0.00	20.00	0.00	1.10	1.50	1.70	0.00	0.00	0.00	0.00
463	WSTLD	0.01314	28.00	0.00	0.00	0.00	5.00	10.00	0.00	10.00	0.00	1.10	4.00	10.00	0.00	0.00	0.00	0.00
550	WSTLD	0.01936	28.00	0.00	0.00	0.00	5.00	14.80	0.00	14.80	0.00	1.10	3.50	10.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m≥/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m≥	SURFACE AREA m≤	X-SECT AREA m≤	TIDAL PRISM m≥	TIDAL VELO m/s	DISPRSN m≤/s	MEAN VELO m/s
420	13.40	13.30	7.53000	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
421	13.30	13.20	7.53000	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
422	13.20	13.10	7.53000	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
423	13.10	13.00	7.53000	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
424	13.00	12.90	7.53000	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
425	12.90	12.80	7.53000	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
426	12.80	12.70	7.53000	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
427	12.70	12.60	7.53000	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
428	12.60	12.50	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
429	12.50	12.40	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
430	12.40	12.30	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
431	12.30	12.20	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
432	12.20	12.10	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033

433	12.10	12.00	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
434	12.00	11.90	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
435	11.90	11.80	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
436	11.80	11.70	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
437	11.70	11.60	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
438	11.60	11.50	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
439	11.50	11.40	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
440	11.40	11.30	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
441	11.30	11.20	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
442	11.20	11.10	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
443	11.10	11.00	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
444	11.00	10.90	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
445	10.90	10.80	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
446	10.80	10.70	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
447	10.70	10.60	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
448	10.60	10.50	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
449	10.50	10.40	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
450	10.40	10.30	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
451	10.30	10.20	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
452	10.20	10.10	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
453	10.10	10.00	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
454	10.00	9.90	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
455	9.90	9.80	7.53105	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
456	9.80	9.70	7.53136	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
457	9.70	9.60	7.53136	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
458	9.60	9.50	7.53136	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
459	9.50	9.40	7.53136	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
460	9.40	9.30	7.53136	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
461	9.30	9.20	7.53136	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
462	9.20	9.10	7.53136	0.0	0.03303	0.04	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
463	9.10	9.00	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
464	9.00	8.90	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
465	8.90	8.80	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
466	8.80	8.70	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
467	8.70	8.60	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
468	8.60	8.50	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
469	8.50	8.40	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
470	8.40	8.30	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
471	8.30	8.20	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
472	8.20	8.10	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
473	8.10	8.00	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
474	8.00	7.90	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
475	7.90	7.80	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
476	7.80	7.70	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
477	7.70	7.60	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
478	7.60	7.50	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
479	7.50	7.40	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
480	7.40	7.30	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
481	7.30	7.20	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
482	7.20	7.10	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033

483	7.10	7.00	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
484	7.00	6.90	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
485	6.90	6.80	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
486	6.80	6.70	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
487	6.70	6.60	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
488	6.60	6.50	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
489	6.50	6.40	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
490	6.40	6.30	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
491	6.30	6.20	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
492	6.20	6.10	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
493	6.10	6.00	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
494	6.00	5.90	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
495	5.90	5.80	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
496	5.80	5.70	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
497	5.70	5.60	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
498	5.60	5.50	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
499	5.50	5.40	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
500	5.40	5.30	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
501	5.30	5.20	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
502	5.20	5.10	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
503	5.10	5.00	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
504	5.00	4.90	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
505	4.90	4.80	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
506	4.80	4.70	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
507	4.70	4.60	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
508	4.60	4.50	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
509	4.50	4.40	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
510	4.40	4.30	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
511	4.30	4.20	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
512	4.20	4.10	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
513	4.10	4.00	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
514	4.00	3.90	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
515	3.90	3.80	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
516	3.80	3.70	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
517	3.70	3.60	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
518	3.60	3.50	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
519	3.50	3.40	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
520	3.40	3.30	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
521	3.30	3.20	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
522	3.20	3.10	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
523	3.10	3.00	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
524	3.00	2.90	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
525	2.90	2.80	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
526	2.80	2.70	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
527	2.70	2.60	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
528	2.60	2.50	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
529	2.50	2.40	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
530	2.40	2.30	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
531	2.30	2.20	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
532	2.20	2.10	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033

533	2.10	2.00	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
534	2.00	1.90	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
535	1.90	1.80	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
536	1.80	1.70	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
537	1.70	1.60	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
538	1.60	1.50	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
539	1.50	1.40	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
540	1.40	1.30	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
541	1.30	1.20	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
542	1.20	1.10	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
543	1.10	1.00	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
544	1.00	0.90	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
545	0.90	0.80	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
546	0.80	0.70	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
547	0.70	0.60	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
548	0.60	0.50	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
549	0.50	0.40	7.54450	0.2	0.03309	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
550	0.40	0.30	7.56386	0.4	0.03317	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
551	0.30	0.20	7.56386	0.4	0.03317	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
552	0.20	0.10	7.56386	0.4	0.03317	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033
553	0.10	0.00	7.56386	0.4	0.03317	0.03	3.00	76.00	22800.00	7600.00	228.00	0.00	0.000	0.000	0.033

TOT			4.69		3055200.00	1018400.00
AVG		0.0331		3.00	76.00	228.00
CUM			4.69			

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORGN SETT 1/da	ORGN DECAY *	NH3 SRCE **	NH3 RATE **	DENIT SRCE 1/da	PO4 PROD 1/da	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
420	13.300	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
421	13.200	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
422	13.100	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
423	13.000	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
424	12.900	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
425	12.800	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
426	12.700	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
427	12.600	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
428	12.500	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
429	12.400	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
430	12.300	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
431	12.200	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
432	12.100	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
433	12.000	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
434	11.900	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
435	11.800	7.58	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
436	11.700	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
437	11.600	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
438	11.500	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

439	11.400	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
440	11.300	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
441	11.200	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
442	11.100	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
443	11.000	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
444	10.900	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
445	10.800	7.57	0.28	0.20	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
446	10.700	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
447	10.600	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
448	10.500	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
449	10.400	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
450	10.300	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.93	0.93	0.93	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
451	10.200	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
452	10.100	7.57	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
453	10.000	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
454	9.900	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
455	9.800	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
456	9.700	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
457	9.600	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
458	9.500	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
459	9.400	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
460	9.300	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
461	9.200	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
462	9.100	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
463	9.000	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
464	8.900	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
465	8.800	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
466	8.700	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
467	8.600	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
468	8.500	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
469	8.400	7.56	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470	8.300	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
471	8.200	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
472	8.100	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
473	8.000	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
474	7.900	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
475	7.800	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
476	7.700	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
477	7.600	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
478	7.500	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
479	7.400	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
480	7.300	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
481	7.200	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
482	7.100	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
483	7.000	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
484	6.900	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
485	6.800	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
486	6.700	7.55	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
487	6.600	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
488	6.500	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

489	6.400	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
490	6.300	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
491	6.200	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
492	6.100	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
493	6.000	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
494	5.900	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
495	5.800	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
496	5.700	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
497	5.600	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
498	5.500	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
499	5.400	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500	5.300	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
501	5.200	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502	5.100	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
503	5.000	7.54	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
504	4.900	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
505	4.800	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
506	4.700	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
507	4.600	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
508	4.500	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
509	4.400	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
510	4.300	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
511	4.200	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
512	4.100	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
513	4.000	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
514	3.900	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
515	3.800	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
516	3.700	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
517	3.600	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
518	3.500	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
519	3.400	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
520	3.300	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
521	3.200	7.53	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
522	3.100	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
523	3.000	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
524	2.900	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
525	2.800	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
526	2.700	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
527	2.600	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
528	2.500	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
529	2.400	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
530	2.300	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
531	2.200	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
532	2.100	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
533	2.000	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
534	1.900	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
535	1.800	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
536	1.700	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
537	1.600	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
538	1.500	7.52	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

539	1.400	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
540	1.300	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
541	1.200	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
542	1.100	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
543	1.000	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
544	0.900	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
545	0.800	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
546	0.700	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
547	0.600	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
548	0.500	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
549	0.400	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
550	0.300	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
551	0.200	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
552	0.100	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
553	0.000	7.51	0.28	0.21	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.96	0.02	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.23 0.13 0.00 0.00 0.00 0.00 0.00 0.50 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO	COLI #/100mL	NCM
420	13.300	29.80	0.00	0.00	0.00	7.37	2.19	0.00	2.19	0.00	1.10	0.03	1.70	2.83	0.00	0.00	0.00	0.	0.00
421	13.200	29.81	0.00	0.00	0.00	7.35	2.19	0.00	2.19	0.00	1.10	0.03	1.70	2.83	0.00	0.00	0.00	0.	0.00
422	13.100	29.81	0.00	0.00	0.00	7.32	2.18	0.00	2.18	0.00	1.10	0.03	1.70	2.83	0.00	0.00	0.00	0.	0.00
423	13.000	29.82	0.00	0.00	0.00	7.30	2.18	0.00	2.18	0.00	1.10	0.03	1.70	2.84	0.00	0.00	0.00	0.	0.00
424	12.900	29.82	0.00	0.00	0.00	7.27	2.17	0.00	2.17	0.00	1.10	0.03	1.70	2.84	0.00	0.00	0.00	0.	0.00
425	12.800	29.83	0.00	0.00	0.00	7.25	2.17	0.00	2.17	0.00	1.10	0.03	1.70	2.84	0.00	0.00	0.00	0.	0.00
426	12.700	29.83	0.00	0.00	0.00	7.22	2.16	0.00	2.16	0.00	1.10	0.03	1.70	2.84	0.00	0.00	0.00	0.	0.00
427	12.600	29.84	0.00	0.00	0.00	7.20	2.16	0.00	2.16	0.00	1.11	0.03	1.70	2.84	0.00	0.00	0.00	0.	0.00
428	12.500	29.84	0.00	0.00	0.00	7.17	2.16	0.00	2.16	0.00	1.11	0.03	1.71	2.85	0.00	0.00	0.00	0.	0.00
429	12.400	29.84	0.00	0.00	0.00	7.15	2.15	0.00	2.15	0.00	1.11	0.03	1.71	2.85	0.00	0.00	0.00	0.	0.00
430	12.300	29.85	0.00	0.00	0.00	7.12	2.15	0.00	2.15	0.00	1.11	0.04	1.71	2.85	0.00	0.00	0.00	0.	0.00
431	12.200	29.85	0.00	0.00	0.00	7.10	2.14	0.00	2.14	0.00	1.11	0.04	1.71	2.85	0.00	0.00	0.00	0.	0.00
432	12.100	29.86	0.00	0.00	0.00	7.07	2.14	0.00	2.14	0.00	1.11	0.04	1.71	2.85	0.00	0.00	0.00	0.	0.00
433	12.000	29.86	0.00	0.00	0.00	7.05	2.13	0.00	2.13	0.00	1.11	0.04	1.71	2.85	0.00	0.00	0.00	0.	0.00
434	11.900	29.87	0.00	0.00	0.00	7.03	2.13	0.00	2.13	0.00	1.11	0.04	1.71	2.86	0.00	0.00	0.00	0.	0.00
435	11.800	29.87	0.00	0.00	0.00	7.01	2.12	0.00	2.12	0.00	1.11	0.04	1.71	2.86	0.00	0.00	0.00	0.	0.00
436	11.700	29.88	0.00	0.00	0.00	6.98	2.12	0.00	2.12	0.00	1.11	0.04	1.71	2.86	0.00	0.00	0.00	0.	0.00
437	11.600	29.88	0.00	0.00	0.00	6.96	2.11	0.00	2.11	0.00	1.11	0.04	1.71	2.86	0.00	0.00	0.00	0.	0.00
438	11.500	29.89	0.00	0.00	0.00	6.94	2.11	0.00	2.11	0.00	1.11	0.04	1.71	2.86	0.00	0.00	0.00	0.	0.00
439	11.400	29.89	0.00	0.00	0.00	6.92	2.10	0.00	2.10	0.00	1.11	0.04	1.71	2.86	0.00	0.00	0.00	0.	0.00
440	11.300	29.89	0.00	0.00	0.00	6.89	2.10	0.00	2.10	0.00	1.11	0.04	1.71	2.87	0.00	0.00	0.00	0.	0.00
441	11.200	29.90	0.00	0.00	0.00	6.87	2.09	0.00	2.09	0.00	1.11	0.04	1.71	2.87	0.00	0.00	0.00	0.	0.00
442	11.100	29.90	0.00	0.00	0.00	6.85	2.09	0.00	2.09	0.00	1.12	0.04	1.71	2.87	0.00	0.00	0.00	0.	0.00
443	11.000	29.91	0.00	0.00	0.00	6.83	2.08	0.00	2.08	0.00	1.12	0.04	1.71	2.87	0.00	0.00	0.00	0.	0.00
444	10.900	29.91	0.00	0.00	0.00	6.81	2.08	0.00	2.08	0.00	1.12	0.04	1.71	2.87	0.00	0.00	0.00	0.	0.00
445	10.800	29.92	0.00	0.00	0.00	6.79	2.07	0.00	2.07	0.00	1.12	0.04	1.72	2.87	0.00	0.00	0.00	0.	0.00

446	10.700	29.92	0.00	0.00	0.00	6.77	2.07	0.00	2.07	0.00	1.12	0.04	1.72	2.87	0.00	0.00	0.00	0.	0.00
447	10.600	29.93	0.00	0.00	0.00	6.75	2.07	0.00	2.07	0.00	1.12	0.04	1.72	2.88	0.00	0.00	0.00	0.	0.00
448	10.500	29.93	0.00	0.00	0.00	6.73	2.06	0.00	2.06	0.00	1.12	0.04	1.72	2.88	0.00	0.00	0.00	0.	0.00
449	10.400	29.93	0.00	0.00	0.00	6.71	2.06	0.00	2.06	0.00	1.12	0.04	1.72	2.88	0.00	0.00	0.00	0.	0.00
450	10.300	29.94	0.00	0.00	0.00	6.69	2.05	0.00	2.05	0.00	1.12	0.04	1.72	2.88	0.00	0.00	0.00	0.	0.00
451	10.200	29.94	0.00	0.00	0.00	6.67	2.05	0.00	2.05	0.00	1.12	0.04	1.72	2.88	0.00	0.00	0.00	0.	0.00
452	10.100	29.95	0.00	0.00	0.00	6.65	2.04	0.00	2.04	0.00	1.12	0.04	1.72	2.88	0.00	0.00	0.00	0.	0.00
453	10.000	29.95	0.00	0.00	0.00	6.63	2.04	0.00	2.04	0.00	1.12	0.04	1.72	2.89	0.00	0.00	0.00	0.	0.00
454	9.900	29.96	0.00	0.00	0.00	6.61	2.03	0.00	2.03	0.00	1.12	0.04	1.72	2.89	0.00	0.00	0.00	0.	0.00
455	9.800	29.96	0.00	0.00	0.00	6.59	2.03	0.00	2.03	0.00	1.12	0.04	1.72	2.89	0.00	0.00	0.00	0.	0.00
456	9.700	29.97	0.00	0.00	0.00	6.57	2.03	0.00	2.03	0.00	1.12	0.04	1.72	2.89	0.00	0.00	0.00	0.	0.00
457	9.600	29.97	0.00	0.00	0.00	6.55	2.02	0.00	2.02	0.00	1.12	0.04	1.72	2.89	0.00	0.00	0.00	0.	0.00
458	9.500	29.97	0.00	0.00	0.00	6.54	2.02	0.00	2.02	0.00	1.13	0.04	1.72	2.89	0.00	0.00	0.00	0.	0.00
459	9.400	29.98	0.00	0.00	0.00	6.52	2.01	0.00	2.01	0.00	1.13	0.05	1.72	2.90	0.00	0.00	0.00	0.	0.00
460	9.300	29.98	0.00	0.00	0.00	6.50	2.01	0.00	2.01	0.00	1.13	0.05	1.73	2.90	0.00	0.00	0.00	0.	0.00
461	9.200	29.99	0.00	0.00	0.00	6.48	2.01	0.00	2.01	0.00	1.13	0.05	1.73	2.90	0.00	0.00	0.00	0.	0.00
462	9.100	29.99	0.00	0.00	0.00	6.46	2.00	0.00	2.00	0.00	1.13	0.05	1.73	2.90	0.00	0.00	0.00	0.	0.00
463	9.000	30.00	0.00	0.00	0.00	6.44	2.01	0.00	2.01	0.00	1.13	0.05	1.74	2.92	0.00	0.00	0.00	0.	0.00
464	8.900	30.00	0.00	0.00	0.00	6.43	2.01	0.00	2.01	0.00	1.13	0.05	1.74	2.92	0.00	0.00	0.00	0.	0.00
465	8.800	30.01	0.00	0.00	0.00	6.41	2.00	0.00	2.00	0.00	1.13	0.05	1.74	2.93	0.00	0.00	0.00	0.	0.00
466	8.700	30.01	0.00	0.00	0.00	6.39	2.00	0.00	2.00	0.00	1.13	0.05	1.74	2.93	0.00	0.00	0.00	0.	0.00
467	8.600	30.01	0.00	0.00	0.00	6.37	2.00	0.00	2.00	0.00	1.13	0.05	1.74	2.93	0.00	0.00	0.00	0.	0.00
468	8.500	30.02	0.00	0.00	0.00	6.36	1.99	0.00	1.99	0.00	1.13	0.05	1.75	2.93	0.00	0.00	0.00	0.	0.00
469	8.400	30.02	0.00	0.00	0.00	6.34	1.99	0.00	1.99	0.00	1.13	0.05	1.75	2.93	0.00	0.00	0.00	0.	0.00
470	8.300	30.03	0.00	0.00	0.00	6.32	1.98	0.00	1.98	0.00	1.13	0.05	1.75	2.93	0.00	0.00	0.00	0.	0.00
471	8.200	30.03	0.00	0.00	0.00	6.31	1.98	0.00	1.98	0.00	1.13	0.05	1.75	2.94	0.00	0.00	0.00	0.	0.00
472	8.100	30.04	0.00	0.00	0.00	6.29	1.98	0.00	1.98	0.00	1.13	0.05	1.75	2.94	0.00	0.00	0.00	0.	0.00
473	8.000	30.04	0.00	0.00	0.00	6.27	1.97	0.00	1.97	0.00	1.14	0.05	1.75	2.94	0.00	0.00	0.00	0.	0.00
474	7.900	30.05	0.00	0.00	0.00	6.26	1.97	0.00	1.97	0.00	1.14	0.05	1.75	2.94	0.00	0.00	0.00	0.	0.00
475	7.800	30.05	0.00	0.00	0.00	6.24	1.96	0.00	1.96	0.00	1.14	0.05	1.75	2.94	0.00	0.00	0.00	0.	0.00
476	7.700	30.06	0.00	0.00	0.00	6.23	1.96	0.00	1.96	0.00	1.14	0.05	1.75	2.94	0.00	0.00	0.00	0.	0.00
477	7.600	30.06	0.00	0.00	0.00	6.21	1.96	0.00	1.96	0.00	1.14	0.06	1.75	2.95	0.00	0.00	0.00	0.	0.00
478	7.500	30.06	0.00	0.00	0.00	6.20	1.95	0.00	1.95	0.00	1.14	0.06	1.75	2.95	0.00	0.00	0.00	0.	0.00
479	7.400	30.07	0.00	0.00	0.00	6.18	1.95	0.00	1.95	0.00	1.14	0.06	1.75	2.95	0.00	0.00	0.00	0.	0.00
480	7.300	30.07	0.00	0.00	0.00	6.17	1.94	0.00	1.94	0.00	1.14	0.06	1.76	2.95	0.00	0.00	0.00	0.	0.00
481	7.200	30.08	0.00	0.00	0.00	6.15	1.94	0.00	1.94	0.00	1.14	0.06	1.76	2.95	0.00	0.00	0.00	0.	0.00
482	7.100	30.08	0.00	0.00	0.00	6.14	1.94	0.00	1.94	0.00	1.14	0.06	1.76	2.95	0.00	0.00	0.00	0.	0.00
483	7.000	30.09	0.00	0.00	0.00	6.12	1.93	0.00	1.93	0.00	1.14	0.06	1.76	2.96	0.00	0.00	0.00	0.	0.00
484	6.900	30.09	0.00	0.00	0.00	6.11	1.93	0.00	1.93	0.00	1.14	0.06	1.76	2.96	0.00	0.00	0.00	0.	0.00
485	6.800	30.10	0.00	0.00	0.00	6.09	1.93	0.00	1.93	0.00	1.14	0.06	1.76	2.96	0.00	0.00	0.00	0.	0.00
486	6.700	30.10	0.00	0.00	0.00	6.08	1.92	0.00	1.92	0.00	1.14	0.06	1.76	2.96	0.00	0.00	0.00	0.	0.00
487	6.600	30.10	0.00	0.00	0.00	6.06	1.92	0.00	1.92	0.00	1.14	0.06	1.76	2.96	0.00	0.00	0.00	0.	0.00
488	6.500	30.11	0.00	0.00	0.00	6.05	1.92	0.00	1.92	0.00	1.14	0.06	1.76	2.96	0.00	0.00	0.00	0.	0.00
489	6.400	30.11	0.00	0.00	0.00	6.04	1.91	0.00	1.91	0.00	1.15	0.06	1.76	2.96	0.00	0.00	0.00	0.	0.00
490	6.300	30.12	0.00	0.00	0.00	6.02	1.91	0.00	1.91	0.00	1.15	0.06	1.76	2.97	0.00	0.00	0.00	0.	0.00
491	6.200	30.12	0.00	0.00	0.00	6.01	1.91	0.00	1.91	0.00	1.15	0.06	1.76	2.97	0.00	0.00	0.00	0.	0.00
492	6.100	30.13	0.00	0.00	0.00	6.00	1.90	0.00	1.90	0.00	1.15	0.06	1.77	2.97	0.00	0.00	0.00	0.	0.00
493	6.000	30.13	0.00	0.00	0.00	5.98	1.90	0.00	1.90	0.00	1.15	0.06	1.77	2.97	0.00	0.00	0.00	0.	0.00
494	5.900	30.14	0.00	0.00	0.00	5.97	1.89	0.00	1.89	0.00	1.15	0.06	1.77	2.97	0.00	0.00	0.00	0.	0.00
495	5.800	30.14	0.00	0.00	0.00	5.96	1.89	0.00	1.89	0.00	1.15	0.06	1.77	2.97	0.00	0.00	0.00	0.	0.00

496	5.700	30.14	0.00	0.00	0.00	5.94	1.89	0.00	1.89	0.00	1.15	0.06	1.77	2.98	0.00	0.00	0.00	0.	0.00
497	5.600	30.15	0.00	0.00	0.00	5.93	1.88	0.00	1.88	0.00	1.15	0.06	1.77	2.98	0.00	0.00	0.00	0.	0.00
498	5.500	30.15	0.00	0.00	0.00	5.92	1.88	0.00	1.88	0.00	1.15	0.06	1.77	2.98	0.00	0.00	0.00	0.	0.00
499	5.400	30.16	0.00	0.00	0.00	5.91	1.88	0.00	1.88	0.00	1.15	0.06	1.77	2.98	0.00	0.00	0.00	0.	0.00
500	5.300	30.16	0.00	0.00	0.00	5.90	1.87	0.00	1.87	0.00	1.15	0.06	1.77	2.98	0.00	0.00	0.00	0.	0.00
501	5.200	30.17	0.00	0.00	0.00	5.88	1.87	0.00	1.87	0.00	1.15	0.06	1.77	2.98	0.00	0.00	0.00	0.	0.00
502	5.100	30.17	0.00	0.00	0.00	5.87	1.87	0.00	1.87	0.00	1.15	0.06	1.77	2.99	0.00	0.00	0.00	0.	0.00
503	5.000	30.18	0.00	0.00	0.00	5.86	1.87	0.00	1.87	0.00	1.15	0.06	1.78	2.99	0.00	0.00	0.00	0.	0.00
504	4.900	30.18	0.00	0.00	0.00	5.85	1.86	0.00	1.86	0.00	1.15	0.06	1.78	2.99	0.00	0.00	0.00	0.	0.00
505	4.800	30.19	0.00	0.00	0.00	5.84	1.86	0.00	1.86	0.00	1.16	0.06	1.78	2.99	0.00	0.00	0.00	0.	0.00
506	4.700	30.19	0.00	0.00	0.00	5.82	1.86	0.00	1.86	0.00	1.16	0.06	1.78	2.99	0.00	0.00	0.00	0.	0.00
507	4.600	30.19	0.00	0.00	0.00	5.81	1.85	0.00	1.85	0.00	1.16	0.06	1.78	2.99	0.00	0.00	0.00	0.	0.00
508	4.500	30.20	0.00	0.00	0.00	5.80	1.85	0.00	1.85	0.00	1.16	0.06	1.78	3.00	0.00	0.00	0.00	0.	0.00
509	4.400	30.20	0.00	0.00	0.00	5.79	1.85	0.00	1.85	0.00	1.16	0.06	1.78	3.00	0.00	0.00	0.00	0.	0.00
510	4.300	30.21	0.00	0.00	0.00	5.78	1.84	0.00	1.84	0.00	1.16	0.06	1.78	3.00	0.00	0.00	0.00	0.	0.00
511	4.200	30.21	0.00	0.00	0.00	5.77	1.84	0.00	1.84	0.00	1.16	0.06	1.78	3.00	0.00	0.00	0.00	0.	0.00
512	4.100	30.22	0.00	0.00	0.00	5.76	1.84	0.00	1.84	0.00	1.16	0.06	1.78	3.00	0.00	0.00	0.00	0.	0.00
513	4.000	30.22	0.00	0.00	0.00	5.75	1.83	0.00	1.83	0.00	1.16	0.06	1.78	3.00	0.00	0.00	0.00	0.	0.00
514	3.900	30.23	0.00	0.00	0.00	5.74	1.83	0.00	1.83	0.00	1.16	0.06	1.78	3.01	0.00	0.00	0.00	0.	0.00
515	3.800	30.23	0.00	0.00	0.00	5.73	1.83	0.00	1.83	0.00	1.16	0.06	1.79	3.01	0.00	0.00	0.00	0.	0.00
516	3.700	30.23	0.00	0.00	0.00	5.72	1.82	0.00	1.82	0.00	1.16	0.06	1.79	3.01	0.00	0.00	0.00	0.	0.00
517	3.600	30.24	0.00	0.00	0.00	5.71	1.82	0.00	1.82	0.00	1.16	0.06	1.79	3.01	0.00	0.00	0.00	0.	0.00
518	3.500	30.24	0.00	0.00	0.00	5.69	1.82	0.00	1.82	0.00	1.16	0.06	1.79	3.01	0.00	0.00	0.00	0.	0.00
519	3.400	30.25	0.00	0.00	0.00	5.68	1.82	0.00	1.82	0.00	1.16	0.06	1.79	3.01	0.00	0.00	0.00	0.	0.00
520	3.300	30.25	0.00	0.00	0.00	5.67	1.81	0.00	1.81	0.00	1.16	0.06	1.79	3.01	0.00	0.00	0.00	0.	0.00
521	3.200	30.26	0.00	0.00	0.00	5.67	1.81	0.00	1.81	0.00	1.16	0.06	1.79	3.02	0.00	0.00	0.00	0.	0.00
522	3.100	30.26	0.00	0.00	0.00	5.66	1.81	0.00	1.81	0.00	1.17	0.06	1.79	3.02	0.00	0.00	0.00	0.	0.00
523	3.000	30.27	0.00	0.00	0.00	5.65	1.80	0.00	1.80	0.00	1.17	0.06	1.79	3.02	0.00	0.00	0.00	0.	0.00
524	2.900	30.27	0.00	0.00	0.00	5.64	1.80	0.00	1.80	0.00	1.17	0.06	1.79	3.02	0.00	0.00	0.00	0.	0.00
525	2.800	30.27	0.00	0.00	0.00	5.63	1.80	0.00	1.80	0.00	1.17	0.06	1.79	3.02	0.00	0.00	0.00	0.	0.00
526	2.700	30.28	0.00	0.00	0.00	5.62	1.80	0.00	1.80	0.00	1.17	0.06	1.80	3.02	0.00	0.00	0.00	0.	0.00
527	2.600	30.28	0.00	0.00	0.00	5.61	1.79	0.00	1.79	0.00	1.17	0.06	1.80	3.03	0.00	0.00	0.00	0.	0.00
528	2.500	30.29	0.00	0.00	0.00	5.60	1.79	0.00	1.79	0.00	1.17	0.06	1.80	3.03	0.00	0.00	0.00	0.	0.00
529	2.400	30.29	0.00	0.00	0.00	5.59	1.79	0.00	1.79	0.00	1.17	0.06	1.80	3.03	0.00	0.00	0.00	0.	0.00
530	2.300	30.30	0.00	0.00	0.00	5.58	1.79	0.00	1.79	0.00	1.17	0.06	1.80	3.03	0.00	0.00	0.00	0.	0.00
531	2.200	30.30	0.00	0.00	0.00	5.57	1.78	0.00	1.78	0.00	1.17	0.06	1.80	3.03	0.00	0.00	0.00	0.	0.00
532	2.100	30.31	0.00	0.00	0.00	5.56	1.78	0.00	1.78	0.00	1.17	0.06	1.80	3.03	0.00	0.00	0.00	0.	0.00
533	2.000	30.31	0.00	0.00	0.00	5.55	1.78	0.00	1.78	0.00	1.17	0.06	1.80	3.04	0.00	0.00	0.00	0.	0.00
534	1.900	30.31	0.00	0.00	0.00	5.55	1.77	0.00	1.77	0.00	1.17	0.06	1.80	3.04	0.00	0.00	0.00	0.	0.00
535	1.800	30.32	0.00	0.00	0.00	5.54	1.77	0.00	1.77	0.00	1.17	0.06	1.80	3.04	0.00	0.00	0.00	0.	0.00
536	1.700	30.32	0.00	0.00	0.00	5.53	1.77	0.00	1.77	0.00	1.17	0.06	1.80	3.04	0.00	0.00	0.00	0.	0.00
537	1.600	30.33	0.00	0.00	0.00	5.52	1.77	0.00	1.77	0.00	1.17	0.06	1.81	3.04	0.00	0.00	0.00	0.	0.00
538	1.500	30.33	0.00	0.00	0.00	5.51	1.76	0.00	1.76	0.00	1.18	0.06	1.81	3.04	0.00	0.00	0.00	0.	0.00
539	1.400	30.34	0.00	0.00	0.00	5.50	1.76	0.00	1.76	0.00	1.18	0.06	1.81	3.05	0.00	0.00	0.00	0.	0.00
540	1.300	30.34	0.00	0.00	0.00	5.50	1.76	0.00	1.76	0.00	1.18	0.06	1.81	3.05	0.00	0.00	0.00	0.	0.00
541	1.200	30.35	0.00	0.00	0.00	5.49	1.76	0.00	1.76	0.00	1.18	0.06	1.81	3.05	0.00	0.00	0.00	0.	0.00
542	1.100	30.35	0.00	0.00	0.00	5.48	1.75	0.00	1.75	0.00	1.18	0.06	1.81	3.05	0.00	0.00	0.00	0.	0.00
543	1.000	30.36	0.00	0.00	0.00	5.47	1.75	0.00	1.75	0.00	1.18	0.06	1.81	3.05	0.00	0.00	0.00	0.	0.00
544	0.900	30.36	0.00	0.00	0.00	5.46	1.75	0.00	1.75	0.00	1.18	0.06	1.81	3.05	0.00	0.00	0.00	0.	0.00
545	0.800	30.36	0.00	0.00	0.00	5.46	1.75	0.00	1.75	0.00	1.18	0.06	1.81	3.05	0.00	0.00	0.00	0.	0.00

546	0.700	30.37	0.00	0.00	0.00	5.45	1.74	0.00	1.74	0.00	1.18	0.06	1.81	3.06	0.00	0.00	0.00	0.	0.00
547	0.600	30.37	0.00	0.00	0.00	5.44	1.74	0.00	1.74	0.00	1.18	0.06	1.81	3.06	0.00	0.00	0.00	0.	0.00
548	0.500	30.38	0.00	0.00	0.00	5.43	1.74	0.00	1.74	0.00	1.18	0.06	1.82	3.06	0.00	0.00	0.00	0.	0.00
549	0.400	30.38	0.00	0.00	0.00	5.43	1.74	0.00	1.74	0.00	1.18	0.06	1.82	3.06	0.00	0.00	0.00	0.	0.00
550	0.300	30.39	0.00	0.00	0.00	5.42	1.77	0.00	1.77	0.00	1.18	0.07	1.84	3.09	0.00	0.00	0.00	0.	0.00
551	0.200	30.39	0.00	0.00	0.00	5.41	1.76	0.00	1.76	0.00	1.18	0.07	1.84	3.09	0.00	0.00	0.00	0.	0.00
552	0.100	30.40	0.00	0.00	0.00	5.40	1.76	0.00	1.76	0.00	1.18	0.07	1.84	3.10	0.00	0.00	0.00	0.	0.00
553	0.000	30.40	0.00	0.00	0.00	5.39	1.76	0.00	1.76	0.00	1.18	0.07	1.84	3.10	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Model for Upper Terrebonne
Intracoastal Waterwa Calibration Simulation for Upper Terrebonne model

TRAVEL TIME = 4.69 DAYS

MAXIMUM EFFLUENT = 0.45 PERCENT

FLOW = 7.53000 TO 7.56386 m≥/s
DISPERSION = 0.0000 TO 0.0000 m≤/s
VELOCITY = 0.03303 TO 0.03317 m/s
DEPTH = 3.00 TO 3.00 m
WIDTH = 76.00 TO 76.00 m

BOD DECAY = 0.20 TO 0.21 per day
NH3 DECAY = 0.43 TO 0.43 per day
SOD = 0.93 TO 0.96 g/m≤/d
NH3 SOURCE = 0.00 TO 0.00 g/m≤/d
REAERATION = 0.28 TO 0.28 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.02 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 29.80 TO 30.40 deg C
DISSOLVED OXYGEN = 5.39 TO 7.37 mg/L
FINAL REPORT Bayou Plaquemine LA-QUAL Model for Upper Terrebonne
REACH NO. 11 Bayou Plaquemine Calibration Simulation for Upper Terrebonne model
********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
710	HDWTR	0.77000	29.10	0.00	0.00	0.00	4.10	4.93	0.00	4.93	0.00	1.60	0.00	1.60	0.00	58.00	0.00	0.00
739	WSTLD	0.06572	28.00	0.00	0.00	0.00	5.00	30.00	0.00	30.00	0.00	1.60	4.00	1.60	0.00	0.00	0.00	0.00
779	WSTLD	0.00285	28.00	0.00	0.00	0.00	5.00	10.00	0.00	10.00	0.00	1.60	1.50	1.60	0.00	0.00	0.00	0.00
782	WSTLD	0.00105	28.00	0.00	0.00	0.00	5.00	30.00	0.00	30.00	0.00	1.60	1.50	1.60	0.00	0.00	0.00	0.00
785	WSTLD	0.00022	28.00	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.60	1.50	1.60	0.00	0.00	0.00	0.00
796	WSTLD	0.00011	28.00	0.00	0.00	0.00	5.00	30.00	0.00	30.00	0.00	1.60	1.50	1.60	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m≥/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m≥	VOLUME AREA m≤	SURFACE AREA m≤	X-SECT PRISM m≥	TIDAL VELO m/s	TIDAL VELO m≤/s	DISPRSN m/s	MEAN

710	11.90	11.80	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
711	11.80	11.70	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
712	11.70	11.60	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
713	11.60	11.50	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
714	11.50	11.40	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
715	11.40	11.30	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
716	11.30	11.20	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
717	11.20	11.10	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
718	11.10	11.00	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
719	11.00	10.90	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
720	10.90	10.80	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
721	10.80	10.70	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
722	10.70	10.60	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
723	10.60	10.50	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
724	10.50	10.40	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
725	10.40	10.30	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
726	10.30	10.20	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
727	10.20	10.10	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
728	10.10	10.00	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
729	10.00	9.90	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
730	9.90	9.80	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
731	9.80	9.70	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
732	9.70	9.60	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
733	9.60	9.50	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
734	9.50	9.40	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
735	9.40	9.30	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
736	9.30	9.20	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
737	9.20	9.10	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
738	9.10	9.00	0.77000	0.0	0.02333	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.023
739	9.00	8.90	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
740	8.90	8.80	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
741	8.80	8.70	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
742	8.70	8.60	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
743	8.60	8.50	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
744	8.50	8.40	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
745	8.40	8.30	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
746	8.30	8.20	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
747	8.20	8.10	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
748	8.10	8.00	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
749	8.00	7.90	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
750	7.90	7.80	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
751	7.80	7.70	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
752	7.70	7.60	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
753	7.60	7.50	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
754	7.50	7.40	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
755	7.40	7.30	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
756	7.30	7.20	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
757	7.20	7.10	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
758	7.10	7.00	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025

759	7.00	6.90	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
760	6.90	6.80	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
761	6.80	6.70	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
762	6.70	6.60	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
763	6.60	6.50	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
764	6.50	6.40	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
765	6.40	6.30	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
766	6.30	6.20	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
767	6.20	6.10	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
768	6.10	6.00	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
769	6.00	5.90	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
770	5.90	5.80	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
771	5.80	5.70	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
772	5.70	5.60	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
773	5.60	5.50	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
774	5.50	5.40	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
775	5.40	5.30	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
776	5.30	5.20	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
777	5.20	5.10	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
778	5.10	5.00	0.83572	7.9	0.02532	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
779	5.00	4.90	0.83857	8.2	0.02541	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
780	4.90	4.80	0.83857	8.2	0.02541	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
781	4.80	4.70	0.83857	8.2	0.02541	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
782	4.70	4.60	0.83962	8.3	0.02544	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
783	4.60	4.50	0.83962	8.3	0.02544	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
784	4.50	4.40	0.83962	8.3	0.02544	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
785	4.40	4.30	0.83984	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
786	4.30	4.20	0.83984	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
787	4.20	4.10	0.83984	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
788	4.10	4.00	0.83984	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
789	4.00	3.90	0.83984	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
790	3.90	3.80	0.83984	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
791	3.80	3.70	0.83984	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
792	3.70	3.60	0.83984	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
793	3.60	3.50	0.83984	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
794	3.50	3.40	0.83984	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
795	3.40	3.30	0.83984	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
796	3.30	3.20	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
797	3.20	3.10	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
798	3.10	3.00	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
799	3.00	2.90	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
800	2.90	2.80	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
801	2.80	2.70	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
802	2.70	2.60	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
803	2.60	2.50	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
804	2.50	2.40	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
805	2.40	2.30	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
806	2.30	2.20	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
807	2.20	2.10	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
808	2.10	2.00	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025

809	2.00	1.90	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
810	1.90	1.80	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
811	1.80	1.70	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
812	1.70	1.60	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
813	1.60	1.50	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
814	1.50	1.40	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
815	1.40	1.30	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
816	1.30	1.20	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
817	1.20	1.10	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
818	1.10	1.00	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
819	1.00	0.90	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
820	0.90	0.80	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
821	0.80	0.70	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
822	0.70	0.60	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
823	0.60	0.50	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
824	0.50	0.40	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
825	0.40	0.30	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
826	0.30	0.20	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
827	0.20	0.10	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025
828	0.10	0.00	0.83995	8.3	0.02545	0.05	1.10	30.00	3300.00	3000.00	33.00	0.00	0.000	0.000	0.025

TOT					5.54		392700.00	357000.00	
AVG				0.0249		1.10	30.00		33.00
CUM					5.54				

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

ELEM NO.	ENDING DIST mg/L	SAT D.O. 1/da	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORGN SETT 1/da	ORGN DECAY *	NH3 SRCE **	NH3 RATE **	DENIT SRCE 1/da	PO4 PROD 1/da	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
710	11.800	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.37	0.00	0.00	0.00	4.37	0.00	0.00	0.00	0.00	
711	11.700	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.37	0.00	0.00	0.00	4.33	0.00	0.00	0.00	0.00	
712	11.600	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.37	0.00	0.00	0.00	4.29	0.00	0.00	0.00	0.00	
713	11.500	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	4.26	0.00	0.00	0.00	0.00	
714	11.400	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	4.22	0.00	0.00	0.00	0.00	
715	11.300	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	4.18	0.00	0.00	0.00	0.00	
716	11.200	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	4.15	0.00	0.00	0.00	0.00	
717	11.100	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	4.11	0.00	0.00	0.00	0.00	
718	11.000	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	4.07	0.00	0.00	0.00	0.00	
719	10.900	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	4.04	0.00	0.00	0.00	0.00	
720	10.800	7.68	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	
721	10.700	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	3.96	0.00	0.00	0.00	0.00	
722	10.600	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	3.93	0.00	0.00	0.00	0.00	
723	10.500	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	3.89	0.00	0.00	0.00	0.00	
724	10.400	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	3.85	0.00	0.00	0.00	0.00	
725	10.300	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	3.82	0.00	0.00	0.00	0.00	
726	10.200	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00	
727	10.100	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.74	0.00	0.00	0.00	0.00	
728	10.000	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00	
729	9.900	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.67	0.00	0.00	0.00	0.00	

730	9.800	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.63	0.00	0.00	0.00	0.00
731	9.700	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00
732	9.600	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.56	0.00	0.00	0.00	0.00
733	9.500	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.52	0.00	0.00	0.00	0.00
734	9.400	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.49	0.00	0.00	0.00	0.00
735	9.300	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.45	0.00	0.00	0.00	0.00
736	9.200	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.41	0.00	0.00	0.00	0.00
737	9.100	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.38	0.00	0.00	0.00	0.00
738	9.000	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.34	0.00	0.00	0.00	0.00
739	8.900	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00
740	8.800	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
741	8.700	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00
742	8.600	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
743	8.500	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00
744	8.400	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00
745	8.300	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
746	8.200	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
747	8.100	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
748	8.000	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00
749	7.900	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
750	7.800	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
751	7.700	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
752	7.600	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
753	7.500	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
754	7.400	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
755	7.300	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
756	7.200	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
757	7.100	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00
758	7.000	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.60	0.00	0.00	0.00	0.00
759	6.900	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.56	0.00	0.00	0.00	0.00
760	6.800	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.53	0.00	0.00	0.00	0.00
761	6.700	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.41	0.00	0.00	0.00	2.49	0.00	0.00	0.00	0.00
762	6.600	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.45	0.00	0.00	0.00	0.00
763	6.500	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.42	0.00	0.00	0.00	0.00
764	6.400	7.67	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00
765	6.300	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.34	0.00	0.00	0.00	0.00
766	6.200	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
767	6.100	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.27	0.00	0.00	0.00	0.00
768	6.000	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00
769	5.900	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
770	5.800	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
771	5.700	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
772	5.600	7.66	0.75	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
773	5.500	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
774	5.400	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00
775	5.300	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
776	5.200	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
777	5.100	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.40	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
778	5.000	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.00
779	4.900	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00

780	4.800	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00
781	4.700	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00
782	4.600	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
783	4.500	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
784	4.400	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
785	4.300	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
786	4.200	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
787	4.100	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00
788	4.000	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.39	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
789	3.900	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
790	3.800	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
791	3.700	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
792	3.600	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
793	3.500	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
794	3.400	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
795	3.300	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.02	0.00	0.38	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
796	3.200	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.38	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
797	3.100	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.38	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
798	3.000	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
799	2.900	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
800	2.800	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
801	2.700	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
802	2.600	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
803	2.500	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
804	2.400	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.37	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
805	2.300	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.36	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
806	2.200	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.36	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
807	2.100	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.36	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
808	2.000	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.36	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
809	1.900	7.66	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.36	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
810	1.800	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.36	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
811	1.700	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.35	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
812	1.600	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.35	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
813	1.500	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.35	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
814	1.400	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.35	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
815	1.300	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.35	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
816	1.200	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.34	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
817	1.100	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.34	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
818	1.000	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.34	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
819	0.900	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.34	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
820	0.800	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.34	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
821	0.700	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.33	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
822	0.600	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.33	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
823	0.500	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.33	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
824	0.400	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.32	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
825	0.300	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.32	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
826	0.200	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.32	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
827	0.100	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.32	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
828	0.000	7.65	0.76	0.17	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.02	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.64 0.11 0.00 0.00 0.00 0.00 0.00 0.50 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO #/100mL	COLI	NCM
710	11.800	29.10	0.00	0.00	0.00	4.36	5.20	0.00	5.20	0.00	1.60	0.00	1.59	3.19	0.00	57.51	0.00	0.	0.00
711	11.700	29.10	0.00	0.00	0.00	4.60	5.47	0.00	5.47	0.00	1.60	0.00	1.58	3.18	0.00	57.03	0.00	0.	0.00
712	11.600	29.11	0.00	0.00	0.00	4.83	5.74	0.00	5.74	0.00	1.59	0.01	1.57	3.17	0.00	56.54	0.00	0.	0.00
713	11.500	29.11	0.00	0.00	0.00	5.05	6.01	0.00	6.01	0.00	1.59	0.01	1.56	3.16	0.00	56.05	0.00	0.	0.00
714	11.400	29.11	0.00	0.00	0.00	5.26	6.27	0.00	6.27	0.00	1.59	0.01	1.55	3.15	0.00	55.56	0.00	0.	0.00
715	11.300	29.11	0.00	0.00	0.00	5.45	6.53	0.00	6.53	0.00	1.59	0.01	1.54	3.14	0.00	55.08	0.00	0.	0.00
716	11.200	29.11	0.00	0.00	0.00	5.64	6.79	0.00	6.79	0.00	1.59	0.01	1.53	3.13	0.00	54.59	0.00	0.	0.00
717	11.100	29.11	0.00	0.00	0.00	5.81	7.05	0.00	7.05	0.00	1.58	0.01	1.52	3.12	0.00	54.10	0.00	0.	0.00
718	11.000	29.12	0.00	0.00	0.00	5.98	7.30	0.00	7.30	0.00	1.58	0.02	1.51	3.11	0.00	53.61	0.00	0.	0.00
719	10.900	29.12	0.00	0.00	0.00	6.13	7.56	0.00	7.56	0.00	1.58	0.02	1.50	3.10	0.00	53.13	0.00	0.	0.00
720	10.800	29.12	0.00	0.00	0.00	6.27	7.81	0.00	7.81	0.00	1.58	0.02	1.49	3.09	0.00	52.64	0.00	0.	0.00
721	10.700	29.12	0.00	0.00	0.00	6.41	8.06	0.00	8.06	0.00	1.58	0.02	1.48	3.08	0.00	52.15	0.00	0.	0.00
722	10.600	29.12	0.00	0.00	0.00	6.54	8.30	0.00	8.30	0.00	1.58	0.02	1.47	3.07	0.00	51.66	0.00	0.	0.00
723	10.500	29.12	0.00	0.00	0.00	6.66	8.55	0.00	8.55	0.00	1.57	0.02	1.46	3.06	0.00	51.18	0.00	0.	0.00
724	10.400	29.13	0.00	0.00	0.00	6.77	8.79	0.00	8.79	0.00	1.57	0.02	1.45	3.05	0.00	50.69	0.00	0.	0.00
725	10.300	29.13	0.00	0.00	0.00	6.87	9.03	0.00	9.03	0.00	1.57	0.03	1.44	3.04	0.00	50.20	0.00	0.	0.00
726	10.200	29.13	0.00	0.00	0.00	6.96	9.27	0.00	9.27	0.00	1.57	0.03	1.43	3.03	0.00	49.71	0.00	0.	0.00
727	10.100	29.13	0.00	0.00	0.00	7.05	9.51	0.00	9.51	0.00	1.57	0.03	1.42	3.02	0.00	49.23	0.00	0.	0.00
728	10.000	29.13	0.00	0.00	0.00	7.13	9.74	0.00	9.74	0.00	1.56	0.03	1.42	3.01	0.00	48.74	0.00	0.	0.00
729	9.900	29.13	0.00	0.00	0.00	7.20	9.98	0.00	9.98	0.00	1.56	0.03	1.41	3.00	0.00	48.25	0.00	0.	0.00
730	9.800	29.14	0.00	0.00	0.00	7.27	10.21	0.00	10.21	0.00	1.56	0.03	1.40	2.99	0.00	47.76	0.00	0.	0.00
731	9.700	29.14	0.00	0.00	0.00	7.33	10.44	0.00	10.44	0.00	1.56	0.03	1.39	2.98	0.00	47.28	0.00	0.	0.00
732	9.600	29.14	0.00	0.00	0.00	7.39	10.66	0.00	10.66	0.00	1.56	0.03	1.38	2.97	0.00	46.79	0.00	0.	0.00
733	9.500	29.14	0.00	0.00	0.00	7.44	10.89	0.00	10.89	0.00	1.56	0.04	1.37	2.97	0.00	46.30	0.00	0.	0.00
734	9.400	29.14	0.00	0.00	0.00	7.48	11.11	0.00	11.11	0.00	1.55	0.04	1.37	2.96	0.00	45.82	0.00	0.	0.00
735	9.300	29.14	0.00	0.00	0.00	7.52	11.33	0.00	11.33	0.00	1.55	0.04	1.36	2.95	0.00	45.33	0.00	0.	0.00
736	9.200	29.15	0.00	0.00	0.00	7.56	11.55	0.00	11.55	0.00	1.55	0.04	1.35	2.94	0.00	44.84	0.00	0.	0.00
737	9.100	29.15	0.00	0.00	0.00	7.59	11.77	0.00	11.77	0.00	1.55	0.04	1.34	2.93	0.00	44.35	0.00	0.	0.00
738	9.000	29.15	0.00	0.00	0.00	7.61	11.99	0.00	11.99	0.00	1.55	0.04	1.34	2.92	0.00	43.87	0.00	0.	0.00
739	8.900	29.15	0.00	0.00	0.00	7.40	13.59	0.00	13.59	0.00	1.55	0.35	1.36	3.25	0.00	43.38	0.00	0.	0.00
740	8.800	29.15	0.00	0.00	0.00	7.38	13.78	0.00	13.78	0.00	1.55	0.34	1.36	3.24	0.00	42.89	0.00	0.	0.00
741	8.700	29.15	0.00	0.00	0.00	7.37	13.96	0.00	13.96	0.00	1.54	0.34	1.35	3.24	0.00	42.40	0.00	0.	0.00
742	8.600	29.16	0.00	0.00	0.00	7.36	14.14	0.00	14.14	0.00	1.54	0.33	1.35	3.23	0.00	41.92	0.00	0.	0.00
743	8.500	29.16	0.00	0.00	0.00	7.34	14.33	0.00	14.33	0.00	1.54	0.33	1.35	3.22	0.00	41.43	0.00	0.	0.00
744	8.400	29.16	0.00	0.00	0.00	7.32	14.51	0.00	14.51	0.00	1.54	0.32	1.35	3.22	0.00	40.94	0.00	0.	0.00
745	8.300	29.16	0.00	0.00	0.00	7.30	14.68	0.00	14.68	0.00	1.54	0.32	1.35	3.21	0.00	40.45	0.00	0.	0.00
746	8.200	29.16	0.00	0.00	0.00	7.27	14.86	0.00	14.86	0.00	1.54	0.32	1.35	3.20	0.00	39.97	0.00	0.	0.00
747	8.100	29.16	0.00	0.00	0.00	7.25	15.04	0.00	15.04	0.00	1.53	0.31	1.35	3.19	0.00	39.48	0.00	0.	0.00
748	8.000	29.17	0.00	0.00	0.00	7.22	15.21	0.00	15.21	0.00	1.53	0.31	1.35	3.19	0.00	38.99	0.00	0.	0.00
749	7.900	29.17	0.00	0.00	0.00	7.19	15.38	0.00	15.38	0.00	1.53	0.30	1.35	3.18	0.00	38.50	0.00	0.	0.00
750	7.800	29.17	0.00	0.00	0.00	7.16	15.56	0.00	15.56	0.00	1.53	0.30	1.34	3.17	0.00	38.02	0.00	0.	0.00
751	7.700	29.17	0.00	0.00	0.00	7.13	15.73	0.00	15.73	0.00	1.53	0.30	1.34	3.17	0.00	37.53	0.00	0.	0.00

752	7.600	29.17	0.00	0.00	0.00	7.09	15.90	0.00	15.90	0.00	1.53	0.29	1.34	3.16	0.00	37.04	0.00	0.	0.00
753	7.500	29.17	0.00	0.00	0.00	7.06	16.06	0.00	16.06	0.00	1.52	0.29	1.34	3.15	0.00	36.55	0.00	0.	0.00
754	7.400	29.18	0.00	0.00	0.00	7.02	16.23	0.00	16.23	0.00	1.52	0.28	1.34	3.15	0.00	36.07	0.00	0.	0.00
755	7.300	29.18	0.00	0.00	0.00	6.99	16.40	0.00	16.40	0.00	1.52	0.28	1.34	3.14	0.00	35.58	0.00	0.	0.00
756	7.200	29.18	0.00	0.00	0.00	6.95	16.56	0.00	16.56	0.00	1.52	0.28	1.34	3.14	0.00	35.09	0.00	0.	0.00
757	7.100	29.18	0.00	0.00	0.00	6.91	16.72	0.00	16.72	0.00	1.52	0.27	1.34	3.13	0.00	34.61	0.00	0.	0.00
758	7.000	29.18	0.00	0.00	0.00	6.86	16.88	0.00	16.88	0.00	1.52	0.27	1.34	3.12	0.00	34.12	0.00	0.	0.00
759	6.900	29.18	0.00	0.00	0.00	6.82	17.04	0.00	17.04	0.00	1.51	0.27	1.34	3.12	0.00	33.63	0.00	0.	0.00
760	6.800	29.19	0.00	0.00	0.00	6.78	17.20	0.00	17.20	0.00	1.51	0.26	1.34	3.11	0.00	33.14	0.00	0.	0.00
761	6.700	29.19	0.00	0.00	0.00	6.73	17.36	0.00	17.36	0.00	1.51	0.26	1.33	3.11	0.00	32.66	0.00	0.	0.00
762	6.600	29.19	0.00	0.00	0.00	6.69	17.52	0.00	17.52	0.00	1.51	0.26	1.33	3.10	0.00	32.17	0.00	0.	0.00
763	6.500	29.19	0.00	0.00	0.00	6.64	17.67	0.00	17.67	0.00	1.51	0.25	1.33	3.10	0.00	31.68	0.00	0.	0.00
764	6.400	29.19	0.00	0.00	0.00	6.59	17.83	0.00	17.83	0.00	1.51	0.25	1.33	3.09	0.00	31.19	0.00	0.	0.00
765	6.300	29.19	0.00	0.00	0.00	6.54	17.98	0.00	17.98	0.00	1.50	0.25	1.33	3.09	0.00	30.71	0.00	0.	0.00
766	6.200	29.20	0.00	0.00	0.00	6.49	18.13	0.00	18.13	0.00	1.50	0.25	1.33	3.08	0.00	30.22	0.00	0.	0.00
767	6.100	29.20	0.00	0.00	0.00	6.44	18.28	0.00	18.28	0.00	1.50	0.24	1.33	3.07	0.00	29.73	0.00	0.	0.00
768	6.000	29.20	0.00	0.00	0.00	6.39	18.43	0.00	18.43	0.00	1.50	0.24	1.33	3.07	0.00	29.24	0.00	0.	0.00
769	5.900	29.20	0.00	0.00	0.00	6.34	18.58	0.00	18.58	0.00	1.50	0.24	1.33	3.06	0.00	28.76	0.00	0.	0.00
770	5.800	29.20	0.00	0.00	0.00	6.28	18.73	0.00	18.73	0.00	1.50	0.24	1.33	3.06	0.00	28.27	0.00	0.	0.00
771	5.700	29.20	0.00	0.00	0.00	6.23	18.87	0.00	18.87	0.00	1.50	0.23	1.33	3.05	0.00	27.78	0.00	0.	0.00
772	5.600	29.21	0.00	0.00	0.00	6.18	19.02	0.00	19.02	0.00	1.49	0.23	1.33	3.05	0.00	27.29	0.00	0.	0.00
773	5.500	29.21	0.00	0.00	0.00	6.12	19.16	0.00	19.16	0.00	1.49	0.23	1.33	3.05	0.00	26.81	0.00	0.	0.00
774	5.400	29.21	0.00	0.00	0.00	6.06	19.31	0.00	19.31	0.00	1.49	0.22	1.33	3.04	0.00	26.32	0.00	0.	0.00
775	5.300	29.21	0.00	0.00	0.00	6.01	19.45	0.00	19.45	0.00	1.49	0.22	1.33	3.04	0.00	25.83	0.00	0.	0.00
776	5.200	29.21	0.00	0.00	0.00	5.95	19.59	0.00	19.59	0.00	1.49	0.22	1.32	3.03	0.00	25.34	0.00	0.	0.00
777	5.100	29.21	0.00	0.00	0.00	5.89	19.73	0.00	19.73	0.00	1.49	0.22	1.32	3.03	0.00	24.86	0.00	0.	0.00
778	5.000	29.22	0.00	0.00	0.00	5.83	19.87	0.00	19.87	0.00	1.48	0.22	1.32	3.02	0.00	24.37	0.00	0.	0.00
779	4.900	29.22	0.00	0.00	0.00	5.77	19.97	0.00	19.97	0.00	1.48	0.22	1.32	3.02	0.00	23.88	0.00	0.	0.00
780	4.800	29.22	0.00	0.00	0.00	5.71	20.11	0.00	20.11	0.00	1.48	0.22	1.32	3.02	0.00	23.39	0.00	0.	0.00
781	4.700	29.22	0.00	0.00	0.00	5.65	20.24	0.00	20.24	0.00	1.48	0.21	1.32	3.02	0.00	22.91	0.00	0.	0.00
782	4.600	29.22	0.00	0.00	0.00	5.59	20.39	0.00	20.39	0.00	1.48	0.21	1.32	3.01	0.00	22.42	0.00	0.	0.00
783	4.500	29.22	0.00	0.00	0.00	5.53	20.52	0.00	20.52	0.00	1.48	0.21	1.32	3.01	0.00	21.93	0.00	0.	0.00
784	4.400	29.23	0.00	0.00	0.00	5.47	20.65	0.00	20.65	0.00	1.47	0.21	1.32	3.01	0.00	21.45	0.00	0.	0.00
785	4.300	29.23	0.00	0.00	0.00	5.41	20.79	0.00	20.79	0.00	1.47	0.21	1.32	3.00	0.00	20.96	0.00	0.	0.00
786	4.200	29.23	0.00	0.00	0.00	5.35	20.92	0.00	20.92	0.00	1.47	0.20	1.32	3.00	0.00	20.47	0.00	0.	0.00
787	4.100	29.23	0.00	0.00	0.00	5.28	21.05	0.00	21.05	0.00	1.47	0.20	1.32	3.00	0.00	19.98	0.00	0.	0.00
788	4.000	29.23	0.00	0.00	0.00	5.22	21.17	0.00	21.17	0.00	1.47	0.20	1.32	2.99	0.00	19.50	0.00	0.	0.00
789	3.900	29.23	0.00	0.00	0.00	5.16	21.30	0.00	21.30	0.00	1.47	0.20	1.32	2.99	0.00	19.01	0.00	0.	0.00
790	3.800	29.24	0.00	0.00	0.00	5.10	21.43	0.00	21.43	0.00	1.46	0.20	1.33	2.99	0.00	18.52	0.00	0.	0.00
791	3.700	29.24	0.00	0.00	0.00	5.03	21.55	0.00	21.55	0.00	1.46	0.20	1.33	2.98	0.00	18.03	0.00	0.	0.00
792	3.600	29.24	0.00	0.00	0.00	4.97	21.68	0.00	21.68	0.00	1.46	0.19	1.33	2.98	0.00	17.55	0.00	0.	0.00
793	3.500	29.24	0.00	0.00	0.00	4.90	21.80	0.00	21.80	0.00	1.46	0.19	1.33	2.98	0.00	17.06	0.00	0.	0.00
794	3.400	29.24	0.00	0.00	0.00	4.84	21.92	0.00	21.92	0.00	1.46	0.19	1.33	2.98	0.00	16.57	0.00	0.	0.00
795	3.300	29.24	0.00	0.00	0.00	4.78	22.04	0.00	22.04	0.00	1.46	0.19	1.33	2.97	0.00	16.08	0.00	0.	0.00
796	3.200	29.25	0.00	0.00	0.00	4.71	22.16	0.00	22.16	0.00	1.46	0.19	1.33	2.97	0.00	15.60	0.00	0.	0.00
797	3.100	29.25	0.00	0.00	0.00	4.65	22.28	0.00	22.28	0.00	1.45	0.19	1.33	2.97	0.00	15.11	0.00	0.	0.00
798	3.000	29.25	0.00	0.00	0.00	4.58	22.40	0.00	22.40	0.00	1.45	0.18	1.33	2.96	0.00	14.62	0.00	0.	0.00
799	2.900	29.25	0.00	0.00	0.00	4.51	22.52	0.00	22.52	0.00	1.45	0.18	1.33	2.96	0.00	14.13	0.00	0.	0.00
800	2.800	29.25	0.00	0.00	0.00	4.45	22.63	0.00	22.63	0.00	1.45	0.18	1.33	2.96	0.00	13.65	0.00	0.	0.00
801	2.700	29.25	0.00	0.00	0.00	4.38	22.75	0.00	22.75	0.00	1.45	0.18	1.33	2.96	0.00	13.16	0.00	0.	0.00

802	2.600	29.26	0.00	0.00	0.00	4.32	22.86	0.00	22.86	0.00	1.45	0.18	1.33	2.96	0.00	12.67	0.00	0.	0.00
803	2.500	29.26	0.00	0.00	0.00	4.25	22.98	0.00	22.98	0.00	1.44	0.18	1.33	2.95	0.00	12.18	0.00	0.	0.00
804	2.400	29.26	0.00	0.00	0.00	4.18	23.09	0.00	23.09	0.00	1.44	0.18	1.33	2.95	0.00	11.70	0.00	0.	0.00
805	2.300	29.26	0.00	0.00	0.00	4.12	23.20	0.00	23.20	0.00	1.44	0.17	1.33	2.95	0.00	11.21	0.00	0.	0.00
806	2.200	29.26	0.00	0.00	0.00	4.05	23.31	0.00	23.31	0.00	1.44	0.17	1.34	2.95	0.00	10.72	0.00	0.	0.00
807	2.100	29.26	0.00	0.00	0.00	3.98	23.42	0.00	23.42	0.00	1.44	0.17	1.34	2.95	0.00	10.24	0.00	0.	0.00
808	2.000	29.27	0.00	0.00	0.00	3.92	23.53	0.00	23.53	0.00	1.44	0.17	1.34	2.94	0.00	9.75	0.00	0.	0.00
809	1.900	29.27	0.00	0.00	0.00	3.85	23.64	0.00	23.64	0.00	1.43	0.17	1.34	2.94	0.00	9.26	0.00	0.	0.00
810	1.800	29.27	0.00	0.00	0.00	3.78	23.75	0.00	23.75	0.00	1.43	0.17	1.34	2.94	0.00	8.77	0.00	0.	0.00
811	1.700	29.27	0.00	0.00	0.00	3.72	23.85	0.00	23.85	0.00	1.43	0.17	1.34	2.94	0.00	8.29	0.00	0.	0.00
812	1.600	29.27	0.00	0.00	0.00	3.65	23.96	0.00	23.96	0.00	1.43	0.17	1.34	2.94	0.00	7.80	0.00	0.	0.00
813	1.500	29.27	0.00	0.00	0.00	3.58	24.07	0.00	24.07	0.00	1.43	0.16	1.34	2.94	0.00	7.31	0.00	0.	0.00
814	1.400	29.28	0.00	0.00	0.00	3.51	24.17	0.00	24.17	0.00	1.43	0.16	1.34	2.94	0.00	6.82	0.00	0.	0.00
815	1.300	29.28	0.00	0.00	0.00	3.45	24.27	0.00	24.27	0.00	1.43	0.16	1.35	2.93	0.00	6.34	0.00	0.	0.00
816	1.200	29.28	0.00	0.00	0.00	3.38	24.38	0.00	24.38	0.00	1.42	0.16	1.35	2.93	0.00	5.85	0.00	0.	0.00
817	1.100	29.28	0.00	0.00	0.00	3.31	24.48	0.00	24.48	0.00	1.42	0.16	1.35	2.93	0.00	5.36	0.00	0.	0.00
818	1.000	29.28	0.00	0.00	0.00	3.24	24.58	0.00	24.58	0.00	1.42	0.16	1.35	2.93	0.00	4.87	0.00	0.	0.00
819	0.900	29.28	0.00	0.00	0.00	3.18	24.68	0.00	24.68	0.00	1.42	0.16	1.35	2.93	0.00	4.39	0.00	0.	0.00
820	0.800	29.29	0.00	0.00	0.00	3.11	24.78	0.00	24.78	0.00	1.42	0.16	1.35	2.93	0.00	3.90	0.00	0.	0.00
821	0.700	29.29	0.00	0.00	0.00	3.04	24.88	0.00	24.88	0.00	1.42	0.16	1.36	2.93	0.00	3.41	0.00	0.	0.00
822	0.600	29.29	0.00	0.00	0.00	2.97	24.98	0.00	24.98	0.00	1.41	0.16	1.36	2.93	0.00	2.92	0.00	0.	0.00
823	0.500	29.29	0.00	0.00	0.00	2.91	25.07	0.00	25.07	0.00	1.41	0.16	1.36	2.93	0.00	2.44	0.00	0.	0.00
824	0.400	29.29	0.00	0.00	0.00	2.84	25.17	0.00	25.17	0.00	1.41	0.15	1.36	2.93	0.00	1.95	0.00	0.	0.00
825	0.300	29.29	0.00	0.00	0.00	2.77	25.27	0.00	25.27	0.00	1.41	0.15	1.36	2.93	0.00	1.46	0.00	0.	0.00
826	0.200	29.30	0.00	0.00	0.00	2.70	25.36	0.00	25.36	0.00	1.41	0.15	1.37	2.93	0.00	0.97	0.00	0.	0.00
827	0.100	29.30	0.00	0.00	0.00	2.64	25.46	0.00	25.46	0.00	1.41	0.15	1.37	2.93	0.00	0.49	0.00	0.	0.00
828	0.000	29.30	0.00	0.00	0.00	2.57	25.55	0.00	25.55	0.00	1.41	0.15	1.37	2.93	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Model for Upper Terrebonne
Bayou Plaquemine Calibration Simulation for Upper Terrebonne model

TRAVEL TIME = 5.54 DAYS

MAXIMUM EFFLUENT = 8.33 PERCENT

FLOW = 0.77000 TO 0.83995 m≥/s
DISPERSION = 0.0000 TO 0.0000 m≤/s
VELOCITY = 0.02333 TO 0.02545 m/s
DEPTH = 1.10 TO 1.10 m
WIDTH = 30.00 TO 30.00 m

BOD DECAY = 0.17 TO 0.17 per day
NH3 DECAY = 0.31 TO 0.41 per day
SOD = 0.89 TO 0.90 g/m≤/d
NH3 SOURCE = 0.00 TO 0.00 g/m≤/d
REAERATION = 0.75 TO 0.76 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.02 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 29.10 TO 29.30 deg C

DISSOLVED OXYGEN = 2.57 TO 7.61 mg/L
FINAL REPORT Upper Grand River #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 13 Upper Grand River #1 Calibration Simulation for Upper Terrebonne model
********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
879	HDWTR	3.94000	30.50	0.00	0.00	0.00	3.30	16.00	0.00	16.00	0.00	1.40	0.03	1.60	0.00	32.00	0.00	0.00
907	WSTLD	0.96829	30.50	0.00	0.00	0.00	5.50	10.00	0.00	10.00	0.00	1.40	0.10	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m≥/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m≥	VOLUME AREA m≤	AREA m≤	PRISM m≥	SURFACE VELO m/s	X-SECT m≤/s	TIDAL VELO m/s	TIDAL	DISPRSN	MEAN
879	12.40	12.30	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
880	12.30	12.20	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
881	12.20	12.10	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
882	12.10	12.00	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
883	12.00	11.90	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
884	11.90	11.80	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
885	11.80	11.70	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
886	11.70	11.60	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
887	11.60	11.50	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
888	11.50	11.40	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
889	11.40	11.30	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
890	11.30	11.20	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
891	11.20	11.10	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
892	11.10	11.00	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
893	11.00	10.90	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
894	10.90	10.80	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
895	10.80	10.70	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
896	10.70	10.60	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
897	10.60	10.50	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
898	10.50	10.40	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
899	10.40	10.30	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
900	10.30	10.20	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
901	10.20	10.10	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
902	10.10	10.00	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
903	10.00	9.90	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
904	9.90	9.80	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
905	9.80	9.70	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
906	9.70	9.60	3.94000	0.0	0.04070	0.03	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.041		
907	9.60	9.50	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051		
908	9.50	9.40	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051		
909	9.40	9.30	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051		
910	9.30	9.20	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051		
911	9.20	9.10	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051		
912	9.10	9.00	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051		

913	9.00	8.90	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
914	8.90	8.80	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
915	8.80	8.70	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
916	8.70	8.60	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
917	8.60	8.50	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
918	8.50	8.40	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
919	8.40	8.30	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
920	8.30	8.20	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
921	8.20	8.10	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
922	8.10	8.00	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
923	8.00	7.90	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
924	7.90	7.80	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
925	7.80	7.70	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
926	7.70	7.60	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
927	7.60	7.50	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
928	7.50	7.40	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
929	7.40	7.30	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
930	7.30	7.20	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
931	7.20	7.10	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
932	7.10	7.00	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
933	7.00	6.90	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
934	6.90	6.80	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
935	6.80	6.70	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
936	6.70	6.60	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
937	6.60	6.50	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
938	6.50	6.40	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
939	6.40	6.30	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
940	6.30	6.20	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
941	6.20	6.10	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
942	6.10	6.00	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
943	6.00	5.90	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
944	5.90	5.80	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
945	5.80	5.70	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
946	5.70	5.60	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
947	5.60	5.50	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
948	5.50	5.40	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
949	5.40	5.30	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
950	5.30	5.20	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
951	5.20	5.10	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
952	5.10	5.00	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
953	5.00	4.90	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
954	4.90	4.80	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
955	4.80	4.70	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
956	4.70	4.60	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
957	4.60	4.50	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
958	4.50	4.40	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
959	4.40	4.30	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
960	4.30	4.20	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
961	4.20	4.10	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051
962	4.10	4.00	4.90829	19.7	0.05071	0.02	1.10	88.00	9680.00	8800.00	96.80	0.00	0.000	0.000	0.051

TOT 2.07 813120.00 739200.00
AVG 0.0469 1.10 88.00 96.80
CUM 2.07
********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORGN SETT **	ORGN DECAY **	NH3 SRCE 1/da	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT
879	12.300	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.40	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
880	12.200	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.40	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
881	12.100	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.39	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
882	12.000	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.03	0.00	0.38	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
883	11.900	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.03	0.00	0.38	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
884	11.800	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.03	0.00	0.37	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
885	11.700	7.37	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.03	0.00	0.37	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
886	11.600	7.38	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.03	0.00	0.36	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
887	11.500	7.38	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.03	0.00	0.36	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
888	11.400	7.38	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.28	0.03	0.00	0.35	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
889	11.300	7.38	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.28	0.03	0.00	0.34	0.00	0.00	0.00	2.77	0.00	0.00	0.00	0.00
890	11.200	7.38	0.85	0.51	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.28	0.03	0.00	0.34	0.00	0.00	0.00	2.77	0.00	0.00	0.00	0.00
891	11.100	7.38	0.85	0.50	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.27	0.03	0.00	0.33	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
892	11.000	7.38	0.85	0.49	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.18	0.03	0.00	0.31	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
893	10.900	7.38	0.85	0.48	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.10	0.03	0.00	0.28	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
894	10.800	7.38	0.85	0.47	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.04	0.03	0.00	0.26	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
895	10.700	7.38	0.85	0.46	0.00	0.00	0.00	0.00	0.00	3.27	3.27	2.99	0.03	0.00	0.24	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00
896	10.600	7.39	0.85	0.45	0.00	0.00	0.00	0.00	0.00	3.27	3.27	2.94	0.03	0.00	0.23	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00
897	10.500	7.39	0.85	0.45	0.00	0.00	0.00	0.00	0.00	3.27	3.27	2.91	0.03	0.00	0.22	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
898	10.400	7.39	0.85	0.45	0.00	0.00	0.00	0.00	0.00	3.27	3.27	2.89	0.03	0.00	0.22	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
899	10.300	7.39	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.26	3.26	2.87	0.03	0.00	0.21	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
900	10.200	7.39	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.26	3.26	2.86	0.03	0.00	0.21	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
901	10.100	7.39	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.26	3.26	2.85	0.03	0.00	0.21	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
902	10.000	7.39	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.26	3.26	2.84	0.03	0.00	0.20	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
903	9.900	7.39	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.26	3.26	2.84	0.03	0.00	0.20	0.00	0.00	0.00	2.84	0.00	0.00	0.00	0.00
904	9.800	7.39	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.26	3.26	2.84	0.03	0.00	0.20	0.00	0.00	0.00	2.84	0.00	0.00	0.00	0.00
905	9.700	7.40	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.25	3.25	2.84	0.03	0.00	0.21	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
906	9.600	7.40	0.85	0.44	0.00	0.00	0.00	0.00	0.00	3.25	3.25	2.85	0.02	0.00	0.21	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
907	9.500	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.36	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
908	9.400	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.36	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
909	9.300	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.36	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
910	9.200	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.02	0.00	0.36	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
911	9.100	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.36	0.00	0.00	0.00	2.88	0.00	0.00	0.00	0.00
912	9.000	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.36	0.00	0.00	0.00	2.88	0.00	0.00	0.00	0.00
913	8.900	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.35	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
914	8.800	7.40	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.35	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
915	8.700	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.35	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
916	8.600	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.02	0.00	0.35	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
917	8.500	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.35	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
918	8.400	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.35	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00

919	8.300	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.35	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00
920	8.200	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.35	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00
921	8.100	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.35	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
922	8.000	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.02	0.00	0.35	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
923	7.900	7.41	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.02	0.00	0.35	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
924	7.800	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.02	0.00	0.35	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
925	7.700	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.02	0.00	0.35	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
926	7.600	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.02	0.00	0.35	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00
927	7.500	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.02	0.00	0.35	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00
928	7.400	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.02	0.00	0.35	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
929	7.300	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.02	0.00	0.35	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
930	7.200	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.02	0.00	0.35	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00
931	7.100	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.02	0.00	0.35	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00
932	7.000	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.02	0.00	0.35	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
933	6.900	7.42	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.02	0.00	0.36	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
934	6.800	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.02	0.00	0.36	0.00	0.00	0.00	2.99	0.00	0.00	0.00	0.00
935	6.700	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.02	0.00	0.36	0.00	0.00	0.00	2.99	0.00	0.00	0.00	0.00
936	6.600	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.02	0.00	0.36	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
937	6.500	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.02	0.00	0.36	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
938	6.400	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.02	0.00	0.36	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
939	6.300	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.02	0.00	0.36	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
940	6.200	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.02	0.00	0.36	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
941	6.100	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.02	0.00	0.36	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
942	6.000	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.02	0.00	0.36	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00
943	5.900	7.43	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.02	0.00	0.36	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00
944	5.800	7.44	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.02	0.00	0.36	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
945	5.700	7.44	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.02	0.00	0.36	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
946	5.600	7.44	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.02	0.00	0.37	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
947	5.500	7.44	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.02	0.00	0.37	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
948	5.400	7.44	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.02	0.00	0.37	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
949	5.300	7.44	0.94	0.50	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.02	0.00	0.37	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00
950	5.200	7.44	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.02	0.00	0.37	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00
951	5.100	7.44	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.02	0.00	0.37	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
952	5.000	7.44	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.02	0.00	0.37	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
953	4.900	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.02	0.00	0.37	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
954	4.800	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.02	0.00	0.37	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
955	4.700	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.02	0.00	0.37	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
956	4.600	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.02	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
957	4.500	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.02	0.00	0.38	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00
958	4.400	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.02	0.00	0.38	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00
959	4.300	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.02	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
960	4.200	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.02	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
961	4.100	7.45	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.02	0.00	0.38	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00
962	4.000	7.46	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.02	0.00	0.38	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE				0.74	0.30	0.00	0.00	0.00	0.00	0.00	1.60		0.02	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO	COLI #/100mL	NCM
879	12.300	31.49	0.00	0.00	0.00	3.16	15.77	0.00	15.77	0.00	1.40	0.03	1.60	3.03	0.00	32.07	0.00	0.	0.00
880	12.200	31.48	0.00	0.00	0.00	3.03	15.55	0.00	15.55	0.00	1.40	0.03	1.59	3.02	0.00	32.14	0.00	0.	0.00
881	12.100	31.48	0.00	0.00	0.00	2.91	15.33	0.00	15.33	0.00	1.40	0.03	1.59	3.02	0.00	32.21	0.00	0.	0.00
882	12.000	31.47	0.00	0.00	0.00	2.79	15.11	0.00	15.11	0.00	1.40	0.03	1.59	3.01	0.00	32.29	0.00	0.	0.00
883	11.900	31.46	0.00	0.00	0.00	2.68	14.89	0.00	14.89	0.00	1.40	0.03	1.58	3.01	0.00	32.36	0.00	0.	0.00
884	11.800	31.45	0.00	0.00	0.00	2.58	14.68	0.00	14.68	0.00	1.39	0.03	1.58	3.01	0.00	32.43	0.00	0.	0.00
885	11.700	31.44	0.00	0.00	0.00	2.48	14.47	0.00	14.47	0.00	1.39	0.03	1.58	3.00	0.00	32.50	0.00	0.	0.00
886	11.600	31.43	0.00	0.00	0.00	2.39	14.27	0.00	14.27	0.00	1.39	0.04	1.57	3.00	0.00	32.57	0.00	0.	0.00
887	11.500	31.42	0.00	0.00	0.00	2.30	14.06	0.00	14.06	0.00	1.39	0.04	1.57	2.99	0.00	32.64	0.00	0.	0.00
888	11.400	31.42	0.00	0.00	0.00	2.21	13.86	0.00	13.86	0.00	1.39	0.04	1.56	2.99	0.00	32.71	0.00	0.	0.00
889	11.300	31.41	0.00	0.00	0.00	2.14	13.67	0.00	13.67	0.00	1.39	0.04	1.56	2.99	0.00	32.79	0.00	0.	0.00
890	11.200	31.40	0.00	0.00	0.00	2.06	13.47	0.00	13.47	0.00	1.39	0.04	1.56	2.98	0.00	32.86	0.00	0.	0.00
891	11.100	31.39	0.00	0.00	0.00	1.99	13.28	0.00	13.28	0.00	1.39	0.04	1.55	2.98	0.00	32.93	0.00	0.	0.00
892	11.000	31.38	0.00	0.00	0.00	1.94	13.10	0.00	13.10	0.00	1.39	0.04	1.55	2.98	0.00	33.00	0.00	0.	0.00
893	10.900	31.38	0.00	0.00	0.00	1.89	12.92	0.00	12.92	0.00	1.39	0.04	1.55	2.97	0.00	33.07	0.00	0.	0.00
894	10.800	31.37	0.00	0.00	0.00	1.86	12.75	0.00	12.75	0.00	1.38	0.04	1.54	2.97	0.00	33.14	0.00	0.	0.00
895	10.700	31.36	0.00	0.00	0.00	1.83	12.59	0.00	12.59	0.00	1.38	0.04	1.54	2.96	0.00	33.21	0.00	0.	0.00
896	10.600	31.35	0.00	0.00	0.00	1.80	12.43	0.00	12.43	0.00	1.38	0.04	1.54	2.96	0.00	33.29	0.00	0.	0.00
897	10.500	31.34	0.00	0.00	0.00	1.78	12.27	0.00	12.27	0.00	1.38	0.04	1.53	2.96	0.00	33.36	0.00	0.	0.00
898	10.400	31.33	0.00	0.00	0.00	1.77	12.12	0.00	12.12	0.00	1.38	0.04	1.53	2.95	0.00	33.43	0.00	0.	0.00
899	10.300	31.33	0.00	0.00	0.00	1.76	11.97	0.00	11.97	0.00	1.38	0.04	1.52	2.95	0.00	33.50	0.00	0.	0.00
900	10.200	31.32	0.00	0.00	0.00	1.75	11.82	0.00	11.82	0.00	1.38	0.04	1.52	2.94	0.00	33.57	0.00	0.	0.00
901	10.100	31.31	0.00	0.00	0.00	1.75	11.67	0.00	11.67	0.00	1.38	0.05	1.52	2.94	0.00	33.64	0.00	0.	0.00
902	10.000	31.30	0.00	0.00	0.00	1.74	11.53	0.00	11.53	0.00	1.38	0.05	1.51	2.94	0.00	33.71	0.00	0.	0.00
903	9.900	31.29	0.00	0.00	0.00	1.74	11.39	0.00	11.39	0.00	1.38	0.05	1.51	2.93	0.00	33.79	0.00	0.	0.00
904	9.800	31.28	0.00	0.00	0.00	1.74	11.24	0.00	11.24	0.00	1.37	0.05	1.51	2.93	0.00	33.86	0.00	0.	0.00
905	9.700	31.27	0.00	0.00	0.00	1.75	11.11	0.00	11.11	0.00	1.37	0.05	1.50	2.92	0.00	33.93	0.00	0.	0.00
906	9.600	31.27	0.00	0.00	0.00	1.75	10.97	0.00	10.97	0.00	1.37	0.05	1.50	2.92	0.00	34.00	0.00	0.	0.00
907	9.500	31.26	0.00	0.00	0.00	2.47	10.65	0.00	10.65	0.00	1.38	0.06	1.20	2.64	0.00	34.07	0.00	0.	0.00
908	9.400	31.25	0.00	0.00	0.00	2.45	10.53	0.00	10.53	0.00	1.38	0.06	1.20	2.63	0.00	34.14	0.00	0.	0.00
909	9.300	31.24	0.00	0.00	0.00	2.44	10.41	0.00	10.41	0.00	1.38	0.06	1.19	2.63	0.00	34.21	0.00	0.	0.00
910	9.200	31.23	0.00	0.00	0.00	2.42	10.30	0.00	10.30	0.00	1.37	0.06	1.19	2.63	0.00	34.29	0.00	0.	0.00
911	9.100	31.23	0.00	0.00	0.00	2.41	10.18	0.00	10.18	0.00	1.37	0.06	1.19	2.62	0.00	34.36	0.00	0.	0.00
912	9.000	31.22	0.00	0.00	0.00	2.40	10.06	0.00	10.06	0.00	1.37	0.06	1.19	2.62	0.00	34.43	0.00	0.	0.00
913	8.900	31.21	0.00	0.00	0.00	2.39	9.95	0.00	9.95	0.00	1.37	0.06	1.18	2.62	0.00	34.50	0.00	0.	0.00
914	8.800	31.20	0.00	0.00	0.00	2.38	9.84	0.00	9.84	0.00	1.37	0.06	1.18	2.61	0.00	34.57	0.00	0.	0.00
915	8.700	31.19	0.00	0.00	0.00	2.37	9.73	0.00	9.73	0.00	1.37	0.06	1.18	2.61	0.00	34.64	0.00	0.	0.00
916	8.600	31.18	0.00	0.00	0.00	2.37	9.62	0.00	9.62	0.00	1.37	0.06	1.17	2.61	0.00	34.71	0.00	0.	0.00
917	8.500	31.17	0.00	0.00	0.00	2.36	9.51	0.00	9.51	0.00	1.37	0.06	1.17	2.60	0.00	34.79	0.00	0.	0.00
918	8.400	31.17	0.00	0.00	0.00	2.36	9.40	0.00	9.40	0.00	1.37	0.06	1.17	2.60	0.00	34.86	0.00	0.	0.00
919	8.300	31.16	0.00	0.00	0.00	2.36	9.29	0.00	9.29	0.00	1.37	0.06	1.17	2.60	0.00	34.93	0.00	0.	0.00
920	8.200	31.15	0.00	0.00	0.00	2.36	9.19	0.00	9.19	0.00	1.37	0.06	1.16	2.59	0.00	35.00	0.00	0.	0.00
921	8.100	31.14	0.00	0.00	0.00	2.37	9.08	0.00	9.08	0.00	1.37	0.06	1.16	2.59	0.00	35.07	0.00	0.	0.00
922	8.000	31.13	0.00	0.00	0.00	2.37	8.98	0.00	8.98	0.00	1.37	0.06	1.16	2.59	0.00	35.14	0.00	0.	0.00
923	7.900	31.12	0.00	0.00	0.00	2.37	8.88	0.00	8.88	0.00	1.36	0.06	1.15	2.58	0.00	35.21	0.00	0.	0.00
924	7.800	31.12	0.00	0.00	0.00	2.38	8.78	0.00	8.78	0.00	1.36	0.06	1.15	2.58	0.00	35.29	0.00	0.	0.00
925	7.700	31.11	0.00	0.00	0.00	2.39	8.68	0.00	8.68	0.00	1.36	0.06	1.15	2.58	0.00	35.36	0.00	0.	0.00

926	7.600	31.10	0.00	0.00	0.00	2.39	8.58	0.00	8.58	0.00	1.36	0.06	1.15	2.57	0.00	35.43	0.00	0.	0.00
927	7.500	31.09	0.00	0.00	0.00	2.40	8.49	0.00	8.49	0.00	1.36	0.06	1.14	2.57	0.00	35.50	0.00	0.	0.00
928	7.400	31.08	0.00	0.00	0.00	2.41	8.39	0.00	8.39	0.00	1.36	0.06	1.14	2.57	0.00	35.57	0.00	0.	0.00
929	7.300	31.07	0.00	0.00	0.00	2.43	8.30	0.00	8.30	0.00	1.36	0.07	1.14	2.56	0.00	35.64	0.00	0.	0.00
930	7.200	31.07	0.00	0.00	0.00	2.44	8.20	0.00	8.20	0.00	1.36	0.07	1.13	2.56	0.00	35.71	0.00	0.	0.00
931	7.100	31.06	0.00	0.00	0.00	2.45	8.11	0.00	8.11	0.00	1.36	0.07	1.13	2.56	0.00	35.79	0.00	0.	0.00
932	7.000	31.05	0.00	0.00	0.00	2.47	8.02	0.00	8.02	0.00	1.36	0.07	1.13	2.55	0.00	35.86	0.00	0.	0.00
933	6.900	31.04	0.00	0.00	0.00	2.48	7.93	0.00	7.93	0.00	1.36	0.07	1.13	2.55	0.00	35.93	0.00	0.	0.00
934	6.800	31.03	0.00	0.00	0.00	2.50	7.84	0.00	7.84	0.00	1.36	0.07	1.12	2.55	0.00	36.00	0.00	0.	0.00
935	6.700	31.02	0.00	0.00	0.00	2.51	7.75	0.00	7.75	0.00	1.36	0.07	1.12	2.54	0.00	36.07	0.00	0.	0.00
936	6.600	31.02	0.00	0.00	0.00	2.53	7.67	0.00	7.67	0.00	1.35	0.07	1.12	2.54	0.00	36.14	0.00	0.	0.00
937	6.500	31.01	0.00	0.00	0.00	2.55	7.58	0.00	7.58	0.00	1.35	0.07	1.11	2.54	0.00	36.21	0.00	0.	0.00
938	6.400	31.00	0.00	0.00	0.00	2.57	7.49	0.00	7.49	0.00	1.35	0.07	1.11	2.53	0.00	36.29	0.00	0.	0.00
939	6.300	30.99	0.00	0.00	0.00	2.59	7.41	0.00	7.41	0.00	1.35	0.07	1.11	2.53	0.00	36.36	0.00	0.	0.00
940	6.200	30.98	0.00	0.00	0.00	2.61	7.33	0.00	7.33	0.00	1.35	0.07	1.11	2.53	0.00	36.43	0.00	0.	0.00
941	6.100	30.98	0.00	0.00	0.00	2.63	7.25	0.00	7.25	0.00	1.35	0.07	1.10	2.52	0.00	36.50	0.00	0.	0.00
942	6.000	30.97	0.00	0.00	0.00	2.65	7.16	0.00	7.16	0.00	1.35	0.07	1.10	2.52	0.00	36.57	0.00	0.	0.00
943	5.900	30.96	0.00	0.00	0.00	2.67	7.08	0.00	7.08	0.00	1.35	0.07	1.10	2.51	0.00	36.64	0.00	0.	0.00
944	5.800	30.95	0.00	0.00	0.00	2.70	7.00	0.00	7.00	0.00	1.35	0.07	1.09	2.51	0.00	36.71	0.00	0.	0.00
945	5.700	30.94	0.00	0.00	0.00	2.72	6.93	0.00	6.93	0.00	1.35	0.07	1.09	2.51	0.00	36.79	0.00	0.	0.00
946	5.600	30.93	0.00	0.00	0.00	2.74	6.85	0.00	6.85	0.00	1.35	0.07	1.09	2.50	0.00	36.86	0.00	0.	0.00
947	5.500	30.92	0.00	0.00	0.00	2.77	6.77	0.00	6.77	0.00	1.35	0.07	1.09	2.50	0.00	36.93	0.00	0.	0.00
948	5.400	30.92	0.00	0.00	0.00	2.79	6.70	0.00	6.70	0.00	1.35	0.07	1.08	2.50	0.00	37.00	0.00	0.	0.00
949	5.300	30.91	0.00	0.00	0.00	2.82	6.62	0.00	6.62	0.00	1.34	0.07	1.08	2.49	0.00	37.07	0.00	0.	0.00
950	5.200	30.90	0.00	0.00	0.00	2.84	6.55	0.00	6.55	0.00	1.34	0.07	1.08	2.49	0.00	37.14	0.00	0.	0.00
951	5.100	30.89	0.00	0.00	0.00	2.87	6.47	0.00	6.47	0.00	1.34	0.07	1.07	2.49	0.00	37.21	0.00	0.	0.00
952	5.000	30.88	0.00	0.00	0.00	2.90	6.40	0.00	6.40	0.00	1.34	0.07	1.07	2.48	0.00	37.29	0.00	0.	0.00
953	4.900	30.88	0.00	0.00	0.00	2.92	6.33	0.00	6.33	0.00	1.34	0.07	1.07	2.48	0.00	37.36	0.00	0.	0.00
954	4.800	30.87	0.00	0.00	0.00	2.95	6.26	0.00	6.26	0.00	1.34	0.07	1.07	2.48	0.00	37.43	0.00	0.	0.00
955	4.700	30.86	0.00	0.00	0.00	2.98	6.19	0.00	6.19	0.00	1.34	0.07	1.06	2.47	0.00	37.50	0.00	0.	0.00
956	4.600	30.85	0.00	0.00	0.00	3.01	6.12	0.00	6.12	0.00	1.34	0.07	1.06	2.47	0.00	37.57	0.00	0.	0.00
957	4.500	30.84	0.00	0.00	0.00	3.04	6.05	0.00	6.05	0.00	1.34	0.07	1.06	2.47	0.00	37.64	0.00	0.	0.00
958	4.400	30.83	0.00	0.00	0.00	3.07	5.99	0.00	5.99	0.00	1.34	0.07	1.05	2.46	0.00	37.71	0.00	0.	0.00
959	4.300	30.82	0.00	0.00	0.00	3.09	5.92	0.00	5.92	0.00	1.34	0.07	1.05	2.46	0.00	37.79	0.00	0.	0.00
960	4.200	30.82	0.00	0.00	0.00	3.12	5.85	0.00	5.85	0.00	1.34	0.07	1.05	2.46	0.00	37.86	0.00	0.	0.00
961	4.100	30.81	0.00	0.00	0.00	3.15	5.79	0.00	5.79	0.00	1.34	0.07	1.04	2.45	0.00	37.93	0.00	0.	0.00
962	4.000	30.80	0.00	0.00	0.00	3.18	5.72	0.00	5.72	0.00	1.33	0.07	1.04	2.45	0.00	38.00	0.00	0.	0.00

FINAL REPORT Upper Grand River #1 LA-QUAL Model for Upper Terrebonne
REACH NO. 15 Upper Grand River #2 Calibration Simulation for Upper Terrebonne model
********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
1007	UPR RCH	4.90829	30.80	0.00	0.00	0.00	3.18	5.72	0.00	5.72	0.00	1.33	0.07	1.04	0.00	38.00	0.00	0.00
1007	TRIB	1.97000	30.80	0.00	0.00	0.00	3.87	6.31	0.00	6.31	0.00	1.41	0.05	0.00	0.00	38.00	0.00	0.00

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

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW EFF	PCT VELO	ADVCTV TIME	TRAVEL	DEPTH	WIDTH	VOLUME AREA	SURFACE AREA	X-SECT PRISM	TIDAL VELO	TIDAL	DISPRSN	MEAN

	km	km	m≥/s	m/s	days	m	m	m≥	m≤	m≤	m≥	m/s	m≤/s	m/s		
1007	4.00	3.90	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1008	3.90	3.80	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1009	3.80	3.70	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1010	3.70	3.60	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1011	3.60	3.50	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1012	3.50	3.40	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1013	3.40	3.30	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1014	3.30	3.20	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1015	3.20	3.10	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1016	3.10	3.00	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1017	3.00	2.90	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1018	2.90	2.80	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1019	2.80	2.70	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1020	2.70	2.60	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1021	2.60	2.50	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1022	2.50	2.40	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1023	2.40	2.30	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1024	2.30	2.20	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1025	2.20	2.10	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1026	2.10	2.00	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1027	2.00	1.90	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1028	1.90	1.80	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1029	1.80	1.70	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1030	1.70	1.60	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1031	1.60	1.50	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1032	1.50	1.40	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1033	1.40	1.30	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1034	1.30	1.20	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1035	1.20	1.10	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1036	1.10	1.00	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1037	1.00	0.90	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1038	0.90	0.80	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1039	0.80	0.70	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1040	0.70	0.60	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1041	0.60	0.50	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1042	0.50	0.40	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1043	0.40	0.30	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1044	0.30	0.20	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1045	0.20	0.10	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085
1046	0.10	0.00	6.87829	14.1	0.08534	0.01	1.30	62.00	8060.00	6200.00	80.60	0.00	0.000	0.000	0.085

TOT				0.54			322400.00	248000.00	
AVG			0.0853		1.30	62.00		80.60	
CUM				2.62					

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

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

	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da		
1007	3.900	7.46	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.02	0.00	0.39	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
1008	3.800	7.46	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.02	0.00	0.39	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
1009	3.700	7.46	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.02	0.00	0.39	0.00	0.00	0.00	2.88	0.00	0.00	0.00	0.00
1010	3.600	7.46	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.14	3.14	3.14	0.02	0.00	0.39	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00
1011	3.500	7.47	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.14	3.14	3.14	0.02	0.00	0.39	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
1012	3.400	7.47	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.14	3.14	3.14	0.02	0.00	0.39	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00
1013	3.300	7.47	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.13	3.13	3.13	0.02	0.00	0.39	0.00	0.00	0.00	2.56	0.00	0.00	0.00	0.00
1014	3.200	7.47	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.13	3.13	3.13	0.02	0.00	0.39	0.00	0.00	0.00	2.48	0.00	0.00	0.00	0.00
1015	3.100	7.48	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.13	3.13	3.13	0.02	0.00	0.39	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00
1016	3.000	7.48	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.12	3.12	3.12	0.02	0.00	0.39	0.00	0.00	0.00	2.32	0.00	0.00	0.00	0.00
1017	2.900	7.48	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.12	3.12	3.12	0.02	0.00	0.39	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
1018	2.800	7.48	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.12	3.12	3.12	0.02	0.00	0.39	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
1019	2.700	7.48	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.11	3.11	3.11	0.02	0.00	0.39	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
1020	2.600	7.49	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.11	3.11	3.11	0.02	0.00	0.39	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00
1021	2.500	7.49	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.11	3.11	3.11	0.02	0.00	0.39	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
1022	2.400	7.49	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.10	3.10	3.10	0.02	0.00	0.39	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
1023	2.300	7.49	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.10	3.10	3.10	0.02	0.00	0.39	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
1024	2.200	7.50	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.10	3.10	3.10	0.02	0.00	0.39	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
1025	2.100	7.50	0.94	0.49	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.02	0.00	0.39	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
1026	2.000	7.50	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.02	0.00	0.39	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00
1027	1.900	7.50	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.02	0.00	0.38	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
1028	1.800	7.50	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.02	0.00	0.38	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
1029	1.700	7.51	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.02	0.00	0.38	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
1030	1.600	7.51	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.02	0.00	0.38	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
1031	1.500	7.51	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.07	0.02	0.00	0.38	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
1032	1.400	7.51	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.07	0.02	0.00	0.38	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
1033	1.300	7.52	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.07	0.02	0.00	0.38	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
1034	1.200	7.52	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.02	0.00	0.38	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
1035	1.100	7.52	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.02	0.00	0.38	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
1036	1.000	7.52	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.02	0.00	0.38	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
1037	0.900	7.53	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.02	0.00	0.38	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
1038	0.800	7.53	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.02	0.00	0.38	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
1039	0.700	7.53	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.02	0.00	0.38	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
1040	0.600	7.53	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.38	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
1041	0.500	7.53	0.94	0.48	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.38	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
1042	0.400	7.54	0.93	0.48	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.37	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
1043	0.300	7.54	0.93	0.48	0.00	0.00	0.00	0.00	0.00	3.03	3.03	3.03	0.02	0.00	0.37	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
1044	0.200	7.54	0.93	0.48	0.00	0.00	0.00	0.00	0.00	3.03	3.03	3.03	0.02	0.00	0.37	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
1045	0.100	7.54	0.93	0.48	0.00	0.00	0.00	0.00	0.00	3.03	3.03	3.03	0.02	0.00	0.37	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
1046	0.000	7.55	0.93	0.48	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.77	0.30	0.00	0.00	0.00	0.00	0.00	1.60			0.02	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO	COLI #/100mL	NCM

1007	3.900	30.78	0.00	0.00	0.00	3.40	5.85	0.00	5.85	0.00	1.36	0.07	0.72	2.14	0.00	37.05	0.00	0.	0.00
1008	3.800	30.76	0.00	0.00	0.00	3.42	5.81	0.00	5.81	0.00	1.36	0.07	0.72	2.14	0.00	36.10	0.00	0.	0.00
1009	3.700	30.75	0.00	0.00	0.00	3.44	5.77	0.00	5.77	0.00	1.36	0.07	0.71	2.14	0.00	35.15	0.00	0.	0.00
1010	3.600	30.73	0.00	0.00	0.00	3.45	5.74	0.00	5.74	0.00	1.36	0.07	0.71	2.14	0.00	34.20	0.00	0.	0.00
1011	3.500	30.71	0.00	0.00	0.00	3.47	5.70	0.00	5.70	0.00	1.35	0.07	0.71	2.13	0.00	33.25	0.00	0.	0.00
1012	3.400	30.69	0.00	0.00	0.00	3.48	5.66	0.00	5.66	0.00	1.35	0.07	0.71	2.13	0.00	32.30	0.00	0.	0.00
1013	3.300	30.68	0.00	0.00	0.00	3.50	5.62	0.00	5.62	0.00	1.35	0.07	0.71	2.13	0.00	31.35	0.00	0.	0.00
1014	3.200	30.66	0.00	0.00	0.00	3.51	5.59	0.00	5.59	0.00	1.35	0.07	0.71	2.13	0.00	30.40	0.00	0.	0.00
1015	3.100	30.64	0.00	0.00	0.00	3.52	5.55	0.00	5.55	0.00	1.35	0.07	0.71	2.13	0.00	29.45	0.00	0.	0.00
1016	3.000	30.62	0.00	0.00	0.00	3.53	5.51	0.00	5.51	0.00	1.35	0.07	0.71	2.13	0.00	28.50	0.00	0.	0.00
1017	2.900	30.61	0.00	0.00	0.00	3.54	5.48	0.00	5.48	0.00	1.35	0.07	0.70	2.12	0.00	27.55	0.00	0.	0.00
1018	2.800	30.59	0.00	0.00	0.00	3.55	5.44	0.00	5.44	0.00	1.35	0.07	0.70	2.12	0.00	26.60	0.00	0.	0.00
1019	2.700	30.57	0.00	0.00	0.00	3.56	5.41	0.00	5.41	0.00	1.35	0.07	0.70	2.12	0.00	25.65	0.00	0.	0.00
1020	2.600	30.56	0.00	0.00	0.00	3.57	5.37	0.00	5.37	0.00	1.35	0.07	0.70	2.12	0.00	24.70	0.00	0.	0.00
1021	2.500	30.54	0.00	0.00	0.00	3.58	5.33	0.00	5.33	0.00	1.35	0.07	0.70	2.12	0.00	23.75	0.00	0.	0.00
1022	2.400	30.52	0.00	0.00	0.00	3.58	5.30	0.00	5.30	0.00	1.35	0.07	0.70	2.12	0.00	22.80	0.00	0.	0.00
1023	2.300	30.50	0.00	0.00	0.00	3.59	5.26	0.00	5.26	0.00	1.35	0.07	0.70	2.12	0.00	21.85	0.00	0.	0.00
1024	2.200	30.49	0.00	0.00	0.00	3.59	5.23	0.00	5.23	0.00	1.35	0.07	0.70	2.11	0.00	20.90	0.00	0.	0.00
1025	2.100	30.47	0.00	0.00	0.00	3.60	5.20	0.00	5.20	0.00	1.35	0.07	0.70	2.11	0.00	19.95	0.00	0.	0.00
1026	2.000	30.45	0.00	0.00	0.00	3.60	5.16	0.00	5.16	0.00	1.35	0.07	0.70	2.11	0.00	19.00	0.00	0.	0.00
1027	1.900	30.43	0.00	0.00	0.00	3.60	5.13	0.00	5.13	0.00	1.35	0.07	0.70	2.11	0.00	18.05	0.00	0.	0.00
1028	1.800	30.41	0.00	0.00	0.00	3.60	5.10	0.00	5.10	0.00	1.35	0.07	0.69	2.11	0.00	17.10	0.00	0.	0.00
1029	1.700	30.40	0.00	0.00	0.00	3.60	5.06	0.00	5.06	0.00	1.35	0.07	0.69	2.11	0.00	16.15	0.00	0.	0.00
1030	1.600	30.38	0.00	0.00	0.00	3.60	5.03	0.00	5.03	0.00	1.35	0.07	0.69	2.11	0.00	15.20	0.00	0.	0.00
1031	1.500	30.36	0.00	0.00	0.00	3.60	5.00	0.00	5.00	0.00	1.35	0.07	0.69	2.11	0.00	14.25	0.00	0.	0.00
1032	1.400	30.34	0.00	0.00	0.00	3.60	4.96	0.00	4.96	0.00	1.35	0.07	0.69	2.11	0.00	13.30	0.00	0.	0.00
1033	1.300	30.33	0.00	0.00	0.00	3.60	4.93	0.00	4.93	0.00	1.34	0.07	0.69	2.11	0.00	12.35	0.00	0.	0.00
1034	1.200	30.31	0.00	0.00	0.00	3.59	4.90	0.00	4.90	0.00	1.34	0.07	0.69	2.11	0.00	11.40	0.00	0.	0.00
1035	1.100	30.29	0.00	0.00	0.00	3.59	4.87	0.00	4.87	0.00	1.34	0.07	0.69	2.11	0.00	10.45	0.00	0.	0.00
1036	1.000	30.27	0.00	0.00	0.00	3.59	4.84	0.00	4.84	0.00	1.34	0.07	0.69	2.10	0.00	9.50	0.00	0.	0.00
1037	0.900	30.26	0.00	0.00	0.00	3.58	4.80	0.00	4.80	0.00	1.34	0.07	0.69	2.10	0.00	8.55	0.00	0.	0.00
1038	0.800	30.24	0.00	0.00	0.00	3.57	4.77	0.00	4.77	0.00	1.34	0.07	0.69	2.10	0.00	7.60	0.00	0.	0.00
1039	0.700	30.22	0.00	0.00	0.00	3.57	4.74	0.00	4.74	0.00	1.34	0.07	0.69	2.10	0.00	6.65	0.00	0.	0.00
1040	0.600	30.20	0.00	0.00	0.00	3.56	4.71	0.00	4.71	0.00	1.34	0.07	0.69	2.10	0.00	5.70	0.00	0.	0.00
1041	0.500	30.19	0.00	0.00	0.00	3.55	4.68	0.00	4.68	0.00	1.34	0.07	0.69	2.10	0.00	4.75	0.00	0.	0.00
1042	0.400	30.17	0.00	0.00	0.00	3.54	4.65	0.00	4.65	0.00	1.34	0.07	0.69	2.10	0.00	3.80	0.00	0.	0.00
1043	0.300	30.15	0.00	0.00	0.00	3.53	4.62	0.00	4.62	0.00	1.34	0.07	0.69	2.10	0.00	2.85	0.00	0.	0.00
1044	0.200	30.14	0.00	0.00	0.00	3.52	4.59	0.00	4.59	0.00	1.34	0.07	0.69	2.10	0.00	1.90	0.00	0.	0.00
1045	0.100	30.12	0.00	0.00	0.00	3.51	4.56	0.00	4.56	0.00	1.34	0.07	0.69	2.10	0.00	0.95	0.00	0.	0.00
1046	0.000	30.10	0.00	0.00	0.00	3.50	4.53	0.00	4.53	0.00	1.34	0.07	0.69	2.10	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Model for Upper Terrebonne
Upper Grand River #1 Calibration Simulation for Upper Terrebonne model

TRAVEL TIME = 2.62 DAYS

MAXIMUM EFFLUENT = 19.73 PERCENT

FLOW = 3.94000 TO 6.87829 m≥/s
DISPERSION = 0.0000 TO 0.0000 m≤/s

VELOCITY = 0.04070 TO 0.08534 m/s
DEPTH = 1.10 TO 1.30 m
WIDTH = 62.00 TO 88.00 m

BOD DECAY = 0.44 TO 0.51 per day
NH3 DECAY = 0.20 TO 0.40 per day
SOD = 2.84 TO 3.30 g/m≤/d
NH3 SOURCE = 0.00 TO 0.00 g/m≤/d
REAERATION = 0.85 TO 0.94 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 30.10 TO 31.49 deg C
DISSOLVED OXYGEN = 1.74 TO 3.60 mg/L
FINAL REPORT Lower Flat River LA-QUAL Model for Upper Terrebonne
REACH NO. 14 Lower Flat River Calibration Simulation for Upper Terrebonne model
********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
963	HDWTR	1.97000	31.50	0.00	0.00	0.00	5.50	12.00	0.00	12.00	0.00	1.40	0.03	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m≥/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m≥	SURFACE AREA m≤	X-SECT AREA m≤	TIDAL PRISM m≥	TIDAL VELO m/s	DISPRSN m≤/s	MEAN VELO m/s
963	4.40	4.30	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
964	4.30	4.20	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
965	4.20	4.10	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
966	4.10	4.00	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
967	4.00	3.90	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
968	3.90	3.80	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
969	3.80	3.70	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
970	3.70	3.60	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
971	3.60	3.50	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
972	3.50	3.40	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
973	3.40	3.30	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
974	3.30	3.20	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
975	3.20	3.10	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
976	3.10	3.00	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
977	3.00	2.90	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
978	2.90	2.80	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
979	2.80	2.70	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
980	2.70	2.60	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
981	2.60	2.50	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
982	2.50	2.40	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
983	2.40	2.30	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038

984	2.30	2.20	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
985	2.20	2.10	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
986	2.10	2.00	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
987	2.00	1.90	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
988	1.90	1.80	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
989	1.80	1.70	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
990	1.70	1.60	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
991	1.60	1.50	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
992	1.50	1.40	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
993	1.40	1.30	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
994	1.30	1.20	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
995	1.20	1.10	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
996	1.10	1.00	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
997	1.00	0.90	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
998	0.90	0.80	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
999	0.80	0.70	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
1000	0.70	0.60	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
1001	0.60	0.50	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
1002	0.50	0.40	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
1003	0.40	0.30	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
1004	0.30	0.20	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
1005	0.20	0.10	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038
1006	0.10	0.00	1.97000	0.0	0.03848	0.03	0.80	64.00	5120.00	6400.00	51.20	0.00	0.000	0.000	0.038

TOT				1.32		225280.00	281600.00	
AVG			0.0385		0.80	64.00		51.20
CUM				1.32				

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

ELEM NO.	ENDING DIST mg/L	SAT D.O. 1/da	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD *	FULL SOD 1/da	CORR DECAY 1/da	ORGN SETT *	ORGN DECAY **	SRCE **	NH3 RATE 1/da	NH3 SRCE 1/da	DENIT PROD	PO4 PROD	ALG DECAY	MAC DECAY	COLI DECAY	NCM SETT
963	4.300	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	0.02	0.00	0.43	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
964	4.200	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	0.02	0.00	0.43	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
965	4.100	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	0.02	0.00	0.42	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
966	4.000	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	0.02	0.00	0.42	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
967	3.900	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	0.02	0.00	0.42	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
968	3.800	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	0.02	0.00	0.41	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
969	3.700	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.02	0.00	0.41	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
970	3.600	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.02	0.00	0.41	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
971	3.500	7.49	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.02	0.00	0.41	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
972	3.400	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.02	0.00	0.40	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
973	3.300	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.02	0.00	0.40	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
974	3.200	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.02	0.00	0.40	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
975	3.100	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.02	0.00	0.40	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
976	3.000	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.02	0.00	0.40	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
977	2.900	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.02	0.00	0.40	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
978	2.800	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
979	2.700	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00

980	2.600	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
981	2.500	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
982	2.400	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
983	2.300	7.48	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
984	2.200	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
985	2.100	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
986	2.000	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.02	0.00	0.39	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
987	1.900	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00
988	1.800	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
989	1.700	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
990	1.600	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00
991	1.500	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
992	1.400	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
993	1.300	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
994	1.200	7.47	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
995	1.100	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.02	0.00	0.39	0.00	0.00	0.00	2.33	0.00	0.00	0.00	0.00
996	1.000	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.02	0.00	0.39	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00
997	0.900	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.02	0.00	0.39	0.00	0.00	0.00	2.47	0.00	0.00	0.00	0.00
998	0.800	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.02	0.00	0.39	0.00	0.00	0.00	2.55	0.00	0.00	0.00	0.00
999	0.700	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.02	0.00	0.40	0.00	0.00	0.00	2.62	0.00	0.00	0.00	0.00
1000	0.600	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.02	0.00	0.40	0.00	0.00	0.00	2.69	0.00	0.00	0.00	0.00
1001	0.500	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.02	0.00	0.40	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
1002	0.400	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.02	0.00	0.40	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
1003	0.300	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.02	0.00	0.40	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
1004	0.200	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.02	0.00	0.40	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
1005	0.100	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.57	2.57	2.57	0.02	0.00	0.40	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
1006	0.000	7.46	1.31	0.49	0.00	0.00	0.00	0.00	0.00	2.57	2.57	2.57	0.02	0.00	0.40	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 1.08 0.30 0.00 0.00 0.00 0.00 0.00 1.30 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m≤/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m≥	PHOS	CHL A	MACRO #/100mL	COLI	NCM
963	4.300	30.51	0.00	0.00	0.00	5.32	11.83	0.00	11.83	0.00	1.40	0.03	0.00	1.43	0.00	0.86	0.00	0.	0.00
964	4.200	30.51	0.00	0.00	0.00	5.15	11.66	0.00	11.66	0.00	1.40	0.03	0.00	1.43	0.00	1.73	0.00	0.	0.00
965	4.100	30.52	0.00	0.00	0.00	4.99	11.49	0.00	11.49	0.00	1.40	0.03	0.00	1.43	0.00	2.59	0.00	0.	0.00
966	4.000	30.53	0.00	0.00	0.00	4.84	11.32	0.00	11.32	0.00	1.40	0.03	0.00	1.43	0.00	3.45	0.00	0.	0.00
967	3.900	30.53	0.00	0.00	0.00	4.70	11.16	0.00	11.16	0.00	1.40	0.03	0.00	1.44	0.00	4.32	0.00	0.	0.00
968	3.800	30.54	0.00	0.00	0.00	4.57	11.00	0.00	11.00	0.00	1.40	0.03	0.00	1.44	0.00	5.18	0.00	0.	0.00
969	3.700	30.55	0.00	0.00	0.00	4.45	10.84	0.00	10.84	0.00	1.40	0.03	0.00	1.44	0.00	6.05	0.00	0.	0.00
970	3.600	30.55	0.00	0.00	0.00	4.33	10.68	0.00	10.68	0.00	1.40	0.04	0.00	1.44	0.00	6.91	0.00	0.	0.00
971	3.500	30.56	0.00	0.00	0.00	4.23	10.53	0.00	10.53	0.00	1.40	0.04	0.00	1.44	0.00	7.77	0.00	0.	0.00
972	3.400	30.57	0.00	0.00	0.00	4.13	10.38	0.00	10.38	0.00	1.40	0.04	0.00	1.44	0.00	8.64	0.00	0.	0.00
973	3.300	30.58	0.00	0.00	0.00	4.05	10.23	0.00	10.23	0.00	1.40	0.04	0.00	1.44	0.00	9.50	0.00	0.	0.00
974	3.200	30.58	0.00	0.00	0.00	3.97	10.08	0.00	10.08	0.00	1.40	0.04	0.00	1.44	0.00	10.36	0.00	0.	0.00
975	3.100	30.59	0.00	0.00	0.00	3.89	9.93	0.00	9.93	0.00	1.40	0.04	0.00	1.44	0.00	11.23	0.00	0.	0.00
976	3.000	30.60	0.00	0.00	0.00	3.82	9.79	0.00	9.79	0.00	1.40	0.04	0.00	1.44	0.00	12.09	0.00	0.	0.00

977	2.900	30.60	0.00	0.00	0.00	3.76	9.65	0.00	9.65	0.00	1.40	0.04	0.00	1.44	0.00	12.95	0.00	0.	0.00
978	2.800	30.61	0.00	0.00	0.00	3.71	9.51	0.00	9.51	0.00	1.40	0.04	0.00	1.44	0.00	13.82	0.00	0.	0.00
979	2.700	30.62	0.00	0.00	0.00	3.66	9.37	0.00	9.37	0.00	1.41	0.04	0.00	1.45	0.00	14.68	0.00	0.	0.00
980	2.600	30.62	0.00	0.00	0.00	3.62	9.23	0.00	9.23	0.00	1.41	0.04	0.00	1.45	0.00	15.55	0.00	0.	0.00
981	2.500	30.63	0.00	0.00	0.00	3.58	9.10	0.00	9.10	0.00	1.41	0.04	0.00	1.45	0.00	16.41	0.00	0.	0.00
982	2.400	30.64	0.00	0.00	0.00	3.55	8.97	0.00	8.97	0.00	1.41	0.04	0.00	1.45	0.00	17.27	0.00	0.	0.00
983	2.300	30.64	0.00	0.00	0.00	3.52	8.84	0.00	8.84	0.00	1.41	0.04	0.00	1.45	0.00	18.14	0.00	0.	0.00
984	2.200	30.65	0.00	0.00	0.00	3.50	8.71	0.00	8.71	0.00	1.41	0.04	0.00	1.45	0.00	19.00	0.00	0.	0.00
985	2.100	30.66	0.00	0.00	0.00	3.48	8.58	0.00	8.58	0.00	1.41	0.04	0.00	1.45	0.00	19.86	0.00	0.	0.00
986	2.000	30.66	0.00	0.00	0.00	3.47	8.46	0.00	8.46	0.00	1.41	0.04	0.00	1.45	0.00	20.73	0.00	0.	0.00
987	1.900	30.67	0.00	0.00	0.00	3.46	8.34	0.00	8.34	0.00	1.41	0.04	0.00	1.45	0.00	21.59	0.00	0.	0.00
988	1.800	30.68	0.00	0.00	0.00	3.45	8.22	0.00	8.22	0.00	1.41	0.05	0.00	1.45	0.00	22.45	0.00	0.	0.00
989	1.700	30.68	0.00	0.00	0.00	3.45	8.10	0.00	8.10	0.00	1.41	0.05	0.00	1.45	0.00	23.32	0.00	0.	0.00
990	1.600	30.69	0.00	0.00	0.00	3.45	7.98	0.00	7.98	0.00	1.41	0.05	0.00	1.45	0.00	24.18	0.00	0.	0.00
991	1.500	30.70	0.00	0.00	0.00	3.46	7.86	0.00	7.86	0.00	1.41	0.05	0.00	1.46	0.00	25.05	0.00	0.	0.00
992	1.400	30.70	0.00	0.00	0.00	3.47	7.75	0.00	7.75	0.00	1.41	0.05	0.00	1.46	0.00	25.91	0.00	0.	0.00
993	1.300	30.71	0.00	0.00	0.00	3.48	7.64	0.00	7.64	0.00	1.41	0.05	0.00	1.46	0.00	26.77	0.00	0.	0.00
994	1.200	30.72	0.00	0.00	0.00	3.49	7.52	0.00	7.52	0.00	1.41	0.05	0.00	1.46	0.00	27.64	0.00	0.	0.00
995	1.100	30.73	0.00	0.00	0.00	3.51	7.41	0.00	7.41	0.00	1.41	0.05	0.00	1.46	0.00	28.50	0.00	0.	0.00
996	1.000	30.73	0.00	0.00	0.00	3.53	7.31	0.00	7.31	0.00	1.41	0.05	0.00	1.46	0.00	29.36	0.00	0.	0.00
997	0.900	30.74	0.00	0.00	0.00	3.56	7.20	0.00	7.20	0.00	1.41	0.05	0.00	1.46	0.00	30.23	0.00	0.	0.00
998	0.800	30.75	0.00	0.00	0.00	3.58	7.10	0.00	7.10	0.00	1.41	0.05	0.00	1.46	0.00	31.09	0.00	0.	0.00
999	0.700	30.75	0.00	0.00	0.00	3.61	6.99	0.00	6.99	0.00	1.41	0.05	0.00	1.46	0.00	31.95	0.00	0.	0.00
1000	0.600	30.76	0.00	0.00	0.00	3.64	6.89	0.00	6.89	0.00	1.41	0.05	0.00	1.46	0.00	32.82	0.00	0.	0.00
1001	0.500	30.77	0.00	0.00	0.00	3.68	6.79	0.00	6.79	0.00	1.41	0.05	0.00	1.46	0.00	33.68	0.00	0.	0.00
1002	0.400	30.77	0.00	0.00	0.00	3.71	6.69	0.00	6.69	0.00	1.41	0.05	0.00	1.46	0.00	34.55	0.00	0.	0.00
1003	0.300	30.78	0.00	0.00	0.00	3.75	6.59	0.00	6.59	0.00	1.41	0.05	0.00	1.46	0.00	35.41	0.00	0.	0.00
1004	0.200	30.79	0.00	0.00	0.00	3.79	6.50	0.00	6.50	0.00	1.41	0.05	0.00	1.46	0.00	36.27	0.00	0.	0.00
1005	0.100	30.79	0.00	0.00	0.00	3.83	6.40	0.00	6.40	0.00	1.41	0.05	0.00	1.47	0.00	37.14	0.00	0.	0.00
1006	0.000	30.80	0.00	0.00	0.00	3.87	6.31	0.00	6.31	0.00	1.41	0.05	0.00	1.47	0.00	38.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Model for Upper Terrebonne
Lower Flat River Calibration Simulation for Upper Terrebonne model

TRAVEL TIME = 1.32 DAYS

MAXIMUM EFFLUENT = 0.00 PERCENT

FLOW = 1.97000 TO 1.97000 m≥/s
DISPERSION = 0.0000 TO 0.0000 m≤/s
VELOCITY = 0.03848 TO 0.03848 m/s
DEPTH = 0.80 TO 0.80 m
WIDTH = 64.00 TO 64.00 m

BOD DECAY = 0.49 TO 0.49 per day
NH3 DECAY = 0.39 TO 0.43 per day
SOD = 2.52 TO 2.57 g/m≤/d
NH3 SOURCE = 0.00 TO 0.00 g/m≤/d
REAERATION = 1.31 TO 1.31 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.02 per day

ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 30.51 TO 30.80 deg C
DISSOLVED OXYGEN = 3.45 TO 5.32 mg/L
LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

REACH SUMMARY REPORT FOR Bayou Cholpe #1

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Bayou Cholpe #1	55.60	52.60	3.00	0.09	0.09485	0.37940	0.250	1.00	3.349	1.245	0.820	3.28
2	Bayou Cholpe #2	52.60	43.10	9.50	3.65	0.67955	0.03011	1.000	10.00	23.995	0.099	3.281	32.81
5	Choctaw Bayou #1	43.10	38.80	4.30	3.11	1.31672	0.01598	2.400	34.00	46.493	0.052	7.874	111.55
8	Choctaw Bayou #2	38.80	31.50	7.30	7.39	1.57969	0.01143	2.800	47.00	55.779	0.038	9.187	154.21
10	Intracoastal Waterway #2	31.50	15.90	15.60	4.38	10.50746	0.04120	3.000	76.00	371.018	0.135	9.843	249.36
12	Intracoastal Waterway #3	15.90	10.90	5.00	1.31	11.34741	0.04433	3.200	80.00	400.677	0.145	10.499	262.48
16	Intracoastal Waterway #4	10.90	0.00	10.90	1.21	18.22570	0.10415	2.500	70.00	643.549	0.342	8.202	229.67

LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

REACH SUMMARY REPORT FOR Bayou Poydras #1

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
3	Bayou Poydras #1	10.30	4.60	5.70	1.20	0.06648	0.05518	0.300	4.00	2.347	0.181	0.984	13.12
4	Bayou Poydras #2	4.60	0.00	4.60	1.77	0.25756	0.03016	0.600	8.00	9.094	0.099	1.969	26.25

LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

REACH SUMMARY REPORT FOR Chamberlin Canal #1

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
6	Chamberlin Canal #1	7.50	4.20	3.30	6.89	0.00200	0.00554	0.100	2.00	0.071	0.018	0.328	6.56
7	Chamberlin Canal #2	4.20	0.00	4.20	11.42	0.00915	0.00426	0.300	5.00	0.323	0.014	0.984	16.40

LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

REACH SUMMARY REPORT FOR Intracoastal Waterwa

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

9	Intracoastal Waterway #1	13.40	0.00	13.40	4.69	7.56386	0.03307	3.000	76.00	267.080	0.109	9.843	249.36

LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

REACH SUMMARY REPORT FOR Bayou Plaquemine

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
11	Bayou Plaquemine	11.90	0.00	11.90	5.54	0.83995	0.02486	1.100	30.00	29.659	0.082	3.609	98.43

LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

REACH SUMMARY REPORT FOR Upper Grand River #1

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
13	Upper Grand River #1	12.40	4.00	8.40	2.07	4.90829	0.04687	1.100	88.00	173.312	0.154	3.609	288.73
15	Upper Grand River #2	4.00	0.00	4.00	0.54	6.87829	0.08534	1.300	62.00	242.872	0.280	4.265	203.42

LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

REACH SUMMARY REPORT FOR Lower Flat River

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
14	Lower Flat River	4.40	0.00	4.40	1.32	1.97000	0.03848	0.800	64.00	69.561	0.126	2.625	209.98

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Cholpe #1

IOR	UPMN ADV	UPTR ADV	UPTR ADV	LOWR DISP	UPMN DISP	UPTR DISP	LOWR IN	LOWR OUT	INCR IN	INCR IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
1	34.	0.	-35.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-34.7	34.7	0.00
2	35.	0.	-36.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-35.7	35.7	0.00
3	36.	0.	-36.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-36.6	36.6	0.00
4	36.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-37.5	37.5	0.00
5	37.	0.	-38.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-38.4	38.4	0.00
6	38.	0.	-39.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-39.2	39.2	0.00
7	39.	0.	-40.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-40.0	40.0	0.00
8	40.	0.	-41.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-40.8	40.8	0.00
9	41.	0.	-41.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-41.5	41.5	0.00
10	41.	0.	-42.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-42.2	42.2	0.00
11	42.	0.	-43.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-42.9	42.9	0.00
12	43.	0.	-43.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-43.6	43.6	0.00
13	43.	0.	-44.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-44.2	44.2	0.00
14	44.	0.	-45.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-44.8	44.8	0.00
15	45.	0.	-45.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-45.4	45.4	0.00
16	45.	0.	-46.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-45.9	45.9	0.00
17	46.	0.	-46.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-46.4	46.4	0.00
18	46.	0.	-47.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-46.9	46.9	0.00
19	47.	0.	-47.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-47.4	47.4	0.00
20	47.	0.	-48.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-47.9	47.9	0.00
21	48.	0.	-48.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-48.3	48.3	0.00
22	48.	0.	-49.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-48.7	48.7	0.00
23	49.	0.	-49.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-49.1	49.1	0.00
24	49.	0.	-49.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-49.5	49.5	0.00
25	49.	0.	-50.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-49.9	49.9	0.00
26	50.	0.	-50.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-50.2	50.2	0.00
27	50.	0.	-50.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-50.6	50.6	0.00
28	50.	0.	-51.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-50.9	50.9	0.00
29	51.	0.	-51.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-51.2	51.2	0.00
30	51.	0.	-51.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-51.4	51.4	0.00
31	51.	0.	-53.	0.	0.	0.	2.	0.	0.	0.	0.	1.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-54.8	54.8	0.00
32	53.	0.	-54.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-56.3	56.3	0.00
33	54.	0.	-56.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-57.9	57.9	0.00
34	56.	0.	-57.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-59.5	59.5	0.00
35	57.	0.	-59.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-61.2	61.2	0.00
36	59.	0.	-61.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-63.0	63.0	0.00
37	61.	0.	-62.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-64.8	64.8	0.00
38	62.	0.	-64.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-66.7	66.7	0.00
39	64.	0.	-66.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-68.6	68.6	0.00
40	66.	0.	-68.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-70.6	70.6	0.00
41	68.	0.	-70.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-72.5	72.5	0.00
42	70.	0.	-72.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-74.5	74.5	0.00
43	72.	0.	-74.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-76.6	76.6	0.00
44	74.	0.	-76.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-78.6	78.6	0.00
45	76.	0.	-78.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-80.7	80.7	0.00

46	78.	0.	-80.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-82.8	82.8	0.00
47	80.	0.	-82.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-84.9	84.9	0.00
48	82.	0.	-84.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-87.0	87.0	0.00
49	84.	0.	-87.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-89.1	89.1	0.00
50	87.	0.	-89.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-91.2	91.2	0.00
51	89.	0.	-91.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-93.4	93.4	0.00
52	91.	0.	-93.	0.	0.	0.	2.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-95.5	95.5	0.00
53	93.	0.	-95.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-97.7	97.7	0.00
54	95.	0.	-97.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-99.8	99.8	0.00
55	97.	0.	-99.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-102.0	102.0	0.00
56	99.	0.	-102.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-104.2	104.2	0.00
57	102.	0.	-104.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-106.4	106.4	0.00
58	104.	0.	-106.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-108.6	108.6	0.00
59	106.	0.	-108.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-110.8	110.8	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Cholpe #1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
60	108.	0.	-110.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-113.0	113.0	0.00
61	110.	0.	-113.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-115.2	115.2	0.00
62	113.	0.	-115.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-117.4	117.4	0.00
63	115.	0.	-117.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-119.6	119.6	0.00
64	117.	0.	-119.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-121.9	121.9	0.00
65	119.	0.	-122.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-124.1	124.1	0.00
66	122.	0.	-124.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-126.3	126.3	0.00
67	124.	0.	-126.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-128.6	128.6	0.00
68	126.	0.	-128.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-130.9	130.9	0.00
69	128.	0.	-131.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-133.2	133.2	0.00
70	131.	0.	-133.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-135.5	135.5	0.00
71	133.	0.	-135.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-137.9	137.9	0.00
72	135.	0.	-138.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-140.2	140.2	0.00
73	138.	0.	-140.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-142.6	142.6	0.00
74	140.	0.	-142.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-145.1	145.1	0.00
75	142.	0.	-145.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-147.5	147.5	0.00
76	145.	0.	-147.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-150.0	150.0	0.00
77	147.	0.	-150.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-152.5	152.5	0.00
78	150.	0.	-152.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-155.0	155.0	0.00
79	152.	0.	-155.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-157.5	157.5	0.00
80	155.	0.	-157.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-160.0	160.0	0.00
81	157.	0.	-160.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-162.6	162.6	0.00
82	160.	0.	-163.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-165.1	165.1	0.00
83	163.	0.	-165.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-167.7	167.7	0.00
84	165.	0.	-168.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-170.3	170.3	0.00
85	168.	0.	-170.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-173.0	173.0	0.00
86	170.	0.	-173.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-175.6	175.6	0.00
87	173.	0.	-176.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-178.3	178.3	0.00
88	176.	0.	-178.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-180.9	180.9	0.00
89	178.	0.	-181.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-183.6	183.6	0.00
90	181.	0.	-184.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-186.3	186.3	0.00
91	184.	0.	-186.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-189.0	189.0	0.00
92	186.	0.	-189.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-191.7	191.7	0.00
93	189.	0.	-192.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-194.4	194.4	0.00
94	192.	0.	-195.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-197.2	197.2	0.00
95	195.	0.	-197.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-199.9	199.9	0.00
96	197.	0.	-200.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-202.7	202.7	0.00
97	200.	0.	-203.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-205.5	205.5	0.00
98	203.	0.	-206.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-208.3	208.3	0.00
99	206.	0.	-208.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-211.1	211.1	0.00
100	208.	0.	-211.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-213.9	213.9	0.00
101	211.	0.	-214.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-216.7	216.7	0.00
102	214.	0.	-217.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-219.5	219.5	0.00
103	217.	0.	-220.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-222.4	222.4	0.00
104	220.	0.	-223.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-225.2	225.2	0.00

105	223.	0.	-225.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-228.1	228.1	0.00
106	225.	0.	-228.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-231.0	231.0	0.00
107	228.	0.	-231.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-233.8	233.8	0.00
108	231.	0.	-234.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-236.7	236.7	0.00
109	234.	0.	-237.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-239.6	239.6	0.00
110	237.	0.	-240.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-242.5	242.5	0.00
111	240.	0.	-243.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-245.4	245.4	0.00
112	243.	0.	-246.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-248.3	248.3	0.00
113	246.	0.	-249.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-251.3	251.3	0.00
114	249.	0.	-252.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-254.2	254.2	0.00
115	252.	0.	-255.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-257.1	257.1	0.00
116	255.	0.	-257.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-260.1	260.1	0.00
117	257.	0.	-260.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-263.1	263.1	0.00
118	260.	0.	-263.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-266.0	266.0	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Cholpe #1

IOR	UPMN ADV	UPTR ADV	UPTR ADV	LOWR DISP	UPMN DISP	UPTR DISP	LOWR IN	INCR OUT	INCR IN	NONP IN	WSLD OUT	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
119	263.	0.	-266.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-269.0	269.0	0.00
120	266.	0.	-269.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-272.0	272.0	0.00
121	269.	0.	-272.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-275.0	275.0	0.00
122	272.	0.	-275.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-277.9	277.9	0.00
123	275.	0.	-278.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-280.9	280.9	0.00
124	278.	0.	-281.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-283.9	283.9	0.00
125	281.	0.	-284.	0.	0.	0.	2.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-287.0	287.0	0.00
229	284.	94.	-352.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-18.	-1.	0.	0.	-18.	0.	0.	0.	1.	0.	0.	-388.5	388.5	0.00
230	352.	0.	-446.	0.	0.	0.	0.	0.	0.	118.	0.	11.	-17.	-1.	0.	0.	-18.	0.	0.	0.	2.	0.	0.	-482.2	482.2	0.00
231	446.	0.	-425.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-18.	0.	0.	0.	3.	0.	0.	-460.4	460.4	0.00
232	425.	0.	-404.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-17.	-1.	0.	0.	-18.	0.	0.	0.	4.	0.	0.	-440.0	440.0	0.00
233	404.	0.	-385.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-17.	-1.	0.	0.	-18.	0.	0.	0.	5.	0.	0.	-420.9	420.9	0.00
234	385.	0.	-367.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-17.	-1.	0.	0.	-18.	0.	0.	0.	6.	0.	0.	-403.0	403.0	0.00
235	367.	0.	-350.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-17.	-1.	0.	0.	-18.	0.	0.	0.	7.	0.	0.	-386.4	386.4	0.00
236	350.	0.	-335.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-17.	-1.	0.	0.	-18.	0.	0.	0.	8.	0.	0.	-371.0	371.0	0.00
237	335.	0.	-320.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-17.	-1.	0.	0.	-19.	0.	0.	0.	9.	0.	0.	-356.9	356.9	0.00
238	320.	0.	-307.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-17.	-1.	0.	0.	-19.	0.	0.	0.	10.	0.	0.	-343.9	343.9	0.00
239	307.	0.	-295.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-17.	-1.	0.	0.	-19.	0.	0.	0.	11.	0.	0.	-332.1	332.1	0.00
240	295.	0.	-284.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-17.	-1.	0.	0.	-19.	0.	0.	0.	12.	0.	0.	-321.4	321.4	0.00
241	284.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-17.	-1.	0.	0.	-19.	0.	0.	0.	13.	0.	0.	-311.9	311.9	0.00
242	275.	0.	-266.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-18.	-1.	0.	0.	-19.	0.	0.	0.	14.	0.	0.	-303.4	303.4	0.00
243	266.	0.	-259.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-18.	-1.	0.	0.	-19.	0.	0.	0.	15.	0.	0.	-296.0	296.0	0.00
244	259.	0.	-252.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-18.	-1.	0.	0.	-19.	0.	0.	0.	16.	0.	0.	-289.7	289.7	0.00
245	252.	0.	-247.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-18.	-1.	0.	0.	-19.	0.	0.	0.	17.	0.	0.	-284.4	284.4	0.00
246	247.	0.	-242.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-18.	-1.	0.	0.	-19.	0.	0.	0.	18.	0.	0.	-280.1	280.1	0.00
247	242.	0.	-239.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-18.	-1.	0.	0.	-19.	0.	0.	0.	19.	0.	0.	-276.7	276.7	0.00
248	239.	0.	-236.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-18.	-1.	0.	0.	-19.	0.	0.	0.	20.	0.	0.	-274.4	274.4	0.00
249	236.	0.	-235.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-18.	-1.	0.	0.	-19.	0.	0.	0.	21.	0.	0.	-273.0	273.0	0.00
250	235.	0.	-234.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-18.	-1.	0.	0.	-19.	0.	0.	0.	22.	0.	0.	-272.5	272.5	0.00
251	234.	0.	-234.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-18.	-1.	0.	0.	-19.	0.	0.	0.	23.	0.	0.	-272.9	272.9	0.00
252	234.	0.	-236.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-18.	-1.	0.	0.	-19.	0.	0.	0.	24.	0.	0.	-274.3	274.3	0.00
253	236.	0.	-238.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-18.	-1.	0.	0.	-20.	0.	0.	0.	25.	0.	0.	-276.4	276.4	0.00
254	238.	0.	-241.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-18.	-1.	0.	0.	-20.	0.	0.	0.	26.	0.	0.	-279.5	279.5	0.00
255	241.	0.	-244.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-18.	-1.	0.	0.	-20.	0.	0.	0.	27.	0.	0.	-283.4	283.4	0.00
256	244.	0.	-249.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-18.	-1.	0.	0.	-20.	0.	0.	0.	28.	0.	0.	-288.1	288.1	0.00
257	249.	0.	-254.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-18.	-1.	0.	0.	-20.	0.	0.	0.	29.	0.	0.	-293.6	293.6	0.00
258	254.	0.	-260.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-18.	-1.	0.	0.	-20.	0.	0.	0.	31.	0.	0.	-299.9	299.9	0.00
259	260.	0.	-267.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-19.	-1.	0.	0.	-20.	0.	0.	0.	32.	0.	0.	-307.0	307.0	0.00
260	267.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-19.	-1.	0.	0.	-20.	0.	0.	0.	33.	0.	0.	-314.8	314.8	0.00
261	275.	0.	-284.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-19.	-1.	0.	0.	-20.	0.	0.	0.	34.	0.	0.	-323.4	323.4	0.00
262	284.	0.	-293.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-19.	-1.	0.	0.	-20.	0.	0.	0.	35.	0.	0.	-332.7	332.7	0.00
263	293.	0.	-303.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-19.	-1.	0.	0.	-20.	0.	0.	0.	36.	0.	0.	-342.8	342.8	0.00
264	303.	0.	-313.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-19.	-1.	0.	0.	-20.	0.	0.	0.	37.	0.	0.	-353.5	353.5	0.00
265	313.	0.	-325.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-19.	-1.	0.	0.	-20.	0.	0.	0.	38.	0.	0.	-364.9	364.9	0.00
266	325.	0.	-336.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-19.	-1.	0.	0.	-20.	0.	0.	0.	39.	0.	0.	-377.0	377.0	0.00

267	336.	0.	-349.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-19.	-1.	0.	0.	-21.	0.	0.	0.	41.	0.	0.	-389.8	389.8	0.00
268	349.	0.	-362.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-19.	-1.	0.	0.	-21.	0.	0.	0.	42.	0.	0.	-403.3	403.3	0.00
269	362.	0.	-376.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-19.	-1.	0.	0.	-21.	0.	0.	0.	43.	0.	0.	-417.3	417.3	0.00
270	376.	0.	-391.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-19.	-1.	0.	0.	-21.	0.	0.	0.	44.	0.	0.	-432.0	432.0	0.00
271	391.	0.	-406.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-19.	-1.	0.	0.	-21.	0.	0.	0.	45.	0.	0.	-447.5	447.5	0.00
347	406.	4.	-454.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-31.	-2.	0.	0.	-10.	0.	0.	0.	72.	0.	0.	-496.5	496.5	0.00
348	454.	0.	-495.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-30.	-2.	0.	0.	-10.	0.	0.	0.	71.	0.	0.	-537.4	537.4	0.00
349	495.	0.	-534.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-30.	-2.	0.	0.	-10.	0.	0.	0.	70.	0.	0.	-576.0	576.0	0.00
350	534.	0.	-570.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-30.	-2.	0.	0.	-10.	0.	0.	0.	69.	0.	0.	-612.5	612.5	0.00
351	570.	0.	-605.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-30.	-2.	0.	0.	-10.	0.	0.	0.	68.	0.	0.	-646.8	646.8	0.00
352	605.	0.	-637.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-30.	-2.	0.	0.	-10.	0.	0.	0.	67.	0.	0.	-679.0	679.0	0.00
353	637.	0.	-668.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-30.	-2.	0.	0.	-10.	0.	0.	0.	66.	0.	0.	-709.3	709.3	0.00
354	668.	0.	-696.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-30.	-2.	0.	0.	-10.	0.	0.	0.	65.	0.	0.	-737.7	737.7	0.00
355	696.	0.	-723.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-30.	-2.	0.	0.	-10.	0.	0.	0.	64.	0.	0.	-764.3	764.3	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Cholpe #1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
356	723.	0.	-748.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-29.	-2.	0.	0.	-10.	0.	0.	0.	63.	0.	0.	-789.0	789.0	0.00
357	748.	0.	-771.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-29.	-2.	0.	0.	-9.	0.	0.	0.	62.	0.	0.	-812.1	812.1	0.00
358	771.	0.	-792.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-29.	-2.	0.	0.	-9.	0.	0.	0.	61.	0.	0.	-833.5	833.5	0.00
359	792.	0.	-812.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-29.	-2.	0.	0.	-9.	0.	0.	0.	60.	0.	0.	-853.3	853.3	0.00
360	812.	0.	-831.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-29.	-2.	0.	0.	-9.	0.	0.	0.	59.	0.	0.	-871.6	871.6	0.00
361	831.	0.	-848.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-29.	-2.	0.	0.	-9.	0.	0.	0.	57.	0.	0.	-888.4	888.4	0.00
362	848.	0.	-863.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-29.	-2.	0.	0.	-9.	0.	0.	0.	56.	0.	0.	-904.2	904.2	0.00
363	863.	0.	-877.	0.	0.	0.	0.	0.	0.	0.	0.	-1.	-29.	-2.	0.	0.	-9.	0.	0.	0.	55.	0.	0.	-918.6	918.6	0.00
364	877.	0.	-890.	0.	0.	0.	0.	0.	0.	0.	0.	-1.	-29.	-2.	0.	0.	-9.	0.	0.	0.	54.	0.	0.	-931.7	931.7	0.00
365	890.	0.	-901.	0.	0.	0.	0.	0.	0.	0.	0.	-2.	-28.	-2.	0.	0.	-9.	0.	0.	0.	53.	0.	0.	-943.4	943.4	0.00
366	901.	0.	-975.	0.	0.	0.	0.	0.	0.	63.	0.	1.	-26.	-8.	0.	0.	-9.	0.	0.	0.	52.	0.	0.	-1017.6	1017.6	0.00
367	975.	0.	-988.	0.	0.	0.	0.	0.	0.	5.	0.	1.	-26.	-8.	0.	0.	-9.	0.	0.	0.	51.	0.	0.	-1031.8	1031.8	0.00
368	988.	0.	-996.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-26.	-8.	0.	0.	-9.	0.	0.	0.	50.	0.	0.	-1039.3	1039.3	0.00
369	996.	0.	-1003.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-7.	0.	0.	-9.	0.	0.	0.	49.	0.	0.	-1045.8	1045.8	0.00
370	1003.	0.	-1009.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-7.	0.	0.	-9.	0.	0.	0.	48.	0.	0.	-1051.4	1051.4	0.00
371	1009.	0.	-1014.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-7.	0.	0.	-9.	0.	0.	0.	47.	0.	0.	-1056.2	1056.2	0.00
372	1014.	0.	-1018.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-7.	0.	0.	-9.	0.	0.	0.	46.	0.	0.	-1060.2	1060.2	0.00
373	1018.	0.	-1021.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-6.	0.	0.	-9.	0.	0.	0.	45.	0.	0.	-1063.3	1063.3	0.00
374	1021.	0.	-1024.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-6.	0.	0.	-9.	0.	0.	0.	44.	0.	0.	-1065.6	1065.6	0.00
375	1024.	0.	-1026.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-6.	0.	0.	-9.	0.	0.	0.	43.	0.	0.	-1067.1	1067.1	0.00
376	1026.	0.	-1026.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-6.	0.	0.	-9.	0.	0.	0.	42.	0.	0.	-1067.8	1067.8	0.00
377	1026.	0.	-1026.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-6.	0.	0.	-9.	0.	0.	0.	41.	0.	0.	-1067.7	1067.7	0.00
378	1026.	0.	-1026.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-6.	0.	0.	-9.	0.	0.	0.	40.	0.	0.	-1066.7	1066.7	0.00
379	1026.	0.	-1024.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-5.	0.	0.	-9.	0.	0.	0.	39.	0.	0.	-1065.1	1065.1	0.00
380	1024.	0.	-1022.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-5.	0.	0.	-9.	0.	0.	0.	38.	0.	0.	-1062.6	1062.6	0.00
381	1022.	0.	-1019.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-5.	0.	0.	-9.	0.	0.	0.	37.	0.	0.	-1059.5	1059.5	0.00
382	1019.	0.	-1016.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-5.	0.	0.	-9.	0.	0.	0.	36.	0.	0.	-1055.6	1055.6	0.00
383	1016.	0.	-1011.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-5.	0.	0.	-9.	0.	0.	0.	35.	0.	0.	-1051.2	1051.2	0.00
384	1011.	0.	-1007.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-5.	0.	0.	-9.	0.	0.	0.	34.	0.	0.	-1046.0	1046.0	0.00
385	1007.	0.	-1001.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-26.	-5.	0.	0.	-9.	0.	0.	0.	33.	0.	0.	-1040.3	1040.3	0.00
386	1001.	0.	-995.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-26.	-4.	0.	0.	-9.	0.	0.	0.	32.	0.	0.	-1033.9	1033.9	0.00
387	995.	0.	-988.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-25.	-4.	0.	0.	-9.	0.	0.	0.	31.	0.	0.	-1026.8	1026.8	0.00
388	988.	0.	-980.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-25.	-4.	0.	0.	-9.	0.	0.	0.	30.	0.	0.	-1019.2	1019.2	0.00
389	980.	0.	-972.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-25.	-4.	0.	0.	-9.	0.	0.	0.	29.	0.	0.	-1010.9	1010.9	0.00
390	972.	0.	-963.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-25.	-4.	0.	0.	-9.	0.	0.	0.	28.	0.	0.	-1002.0	1002.0	0.00
391	963.	0.	-954.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-25.	-4.	0.	0.	-9.	0.	0.	0.	27.	0.	0.	-992.6	992.6	0.00
392	954.	0.	-944.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-25.	-4.	0.	0.	-9.	0.	0.	0.	26.	0.	0.	-982.7	982.7	0.00
393	944.	0.	-934.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-25.	-4.	0.	0.	-9.	0.	0.	0.	25.	0.	0.	-972.1	972.1	0.00
394	934.	0.	-923.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-25.	-4.	0.	0.	-9.	0.	0.	0.	24.	0.	0.	-961.1	961.1	0.00
395	923.	0.	-912.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-25.	-3.	0.	0.	-9.	0.	0.	0.	23.	0.	0.	-949.5	949.5	0.00
396	912.	0.	-900.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-25.	-3.	0.	0.	-9.	0.	0.	0.	22.	0.	0.	-937.4	937.4	0.00
397	900.	0.	-887.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-25.	-3.	0.	0.	-9.	0.	0.	0.	21.	0.	0.	-924.8	924.8	0.00
398	887.	0.	-874.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-25.	-3.	0.	0.	-9.	0.	0.	0.	20.	0.	0.	-911.7	911.7	0.00
399	874.	0.	-861.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-25.	-3.	0.	0.	-9.	0.	0.	0.	19.	0.	0.	-898.1	898.1	0.00
400	861.	0.	-847.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-25.	-3.	0.	0.	-9.	0.	0.	0.	18.	0.	0.	-884.1	884.1	0.00

401	847.	0.	-832.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-25.	-3.	0.	0.	-9.	0.	0.	0.	17.	0.	0.	-869.7	869.7	0.00
402	832.	0.	-817.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-25.	-3.	0.	0.	-9.	0.	0.	0.	16.	0.	0.	-854.7	854.7	0.00
403	817.	0.	-802.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-25.	-3.	0.	0.	-9.	0.	0.	0.	15.	0.	0.	-839.4	839.4	0.00
404	802.	0.	-787.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-25.	-3.	0.	0.	-9.	0.	0.	0.	15.	0.	0.	-823.6	823.6	0.00
405	787.	0.	-770.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-25.	-3.	0.	0.	-9.	0.	0.	0.	14.	0.	0.	-807.4	807.4	0.00
406	770.	0.	-754.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-25.	-3.	0.	0.	-9.	0.	0.	0.	13.	0.	0.	-790.8	790.8	0.00
407	754.	0.	-737.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-25.	-3.	0.	0.	-9.	0.	0.	0.	12.	0.	0.	-773.9	773.9	0.00
408	737.	0.	-720.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-25.	-3.	0.	0.	-9.	0.	0.	0.	11.	0.	0.	-756.5	756.5	0.00
409	720.	0.	-702.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-25.	-3.	0.	0.	-9.	0.	0.	0.	10.	0.	0.	-738.8	738.8	0.00
410	702.	0.	-684.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-25.	-3.	0.	0.	-9.	0.	0.	0.	9.	0.	0.	-720.7	720.7	0.00
411	684.	0.	-666.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-25.	-2.	0.	0.	-9.	0.	0.	0.	8.	0.	0.	-702.3	702.3	0.00
412	666.	0.	-647.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-25.	-2.	0.	0.	-9.	0.	0.	0.	7.	0.	0.	-683.5	683.5	0.00
413	647.	0.	-628.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-25.	-2.	0.	0.	-9.	0.	0.	0.	6.	0.	0.	-664.4	664.4	0.00
414	628.	0.	-609.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-25.	-2.	0.	0.	-9.	0.	0.	0.	5.	0.	0.	-645.0	645.0	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Cholpe #1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
415	609.	0.	-589.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-25.	-2.	0.	0.	-9.	0.	0.	0.	4.	0.	0.	-625.2	625.2	0.00
416	589.	0.	-569.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-25.	-2.	0.	0.	-9.	0.	0.	0.	3.	0.	0.	-605.2	605.2	0.00
417	569.	0.	-549.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-25.	-2.	0.	0.	-9.	0.	0.	0.	2.	0.	0.	-584.8	584.8	0.00
418	549.	0.	-528.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-25.	-2.	0.	0.	-9.	0.	0.	0.	1.	0.	0.	-564.2	564.2	0.00
419	528.	0.	-507.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-25.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-543.2	543.2	0.00
554	507.	3525.	-4010.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-16.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-4047.5	4047.5	0.00
555	4010.	0.	-3988.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-16.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-4025.6	4025.6	0.00
556	3988.	0.	-3966.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-16.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-4003.8	4003.8	0.00
557	3966.	0.	-3945.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-16.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3982.3	3982.3	0.00
558	3945.	0.	-3923.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3961.1	3961.1	0.00
559	3923.	0.	-3903.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3940.1	3940.1	0.00
560	3903.	0.	-3882.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3919.3	3919.3	0.00
561	3882.	0.	-3861.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3898.7	3898.7	0.00
562	3861.	0.	-3841.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3878.4	3878.4	0.00
563	3841.	0.	-3821.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3858.3	3858.3	0.00
564	3821.	0.	-3801.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3838.4	3838.4	0.00
565	3801.	0.	-3782.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3818.7	3818.7	0.00
566	3782.	0.	-3762.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3799.3	3799.3	0.00
567	3762.	0.	-3743.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3780.1	3780.1	0.00
568	3743.	0.	-3724.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3761.1	3761.1	0.00
569	3724.	0.	-3705.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3742.3	3742.3	0.00
570	3705.	0.	-3687.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3723.7	3723.7	0.00
571	3687.	0.	-3668.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3705.3	3705.3	0.00
572	3668.	0.	-3650.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3687.1	3687.1	0.00
573	3650.	0.	-3632.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3669.1	3669.1	0.00
574	3632.	0.	-3615.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3651.4	3651.4	0.00
575	3615.	0.	-3597.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3633.8	3633.8	0.00
576	3597.	0.	-3580.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3616.4	3616.4	0.00
577	3580.	0.	-3563.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3599.2	3599.2	0.00
578	3563.	0.	-3546.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3582.3	3582.3	0.00
579	3546.	0.	-3529.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3565.5	3565.5	0.00
580	3529.	0.	-3512.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3548.8	3548.9	0.00
581	3512.	0.	-3496.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3532.4	3532.4	0.00
582	3496.	0.	-3480.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-15.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3516.2	3516.2	0.00
583	3480.	0.	-3464.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3500.1	3500.1	0.00
584	3464.	0.	-3448.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3484.3	3484.3	0.00
585	3448.	0.	-3432.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3468.6	3468.6	0.00
586	3432.	0.	-3417.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3453.1	3453.1	0.00
587	3417.	0.	-3402.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3437.7	3437.7	0.00
588	3402.	0.	-3387.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3422.5	3422.5	0.00
589	3387.	0.	-3372.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3407.6	3407.6	0.00
590	3372.	0.	-3357.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3392.7	3392.7	0.00
591	3357.	0.	-3342.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3378.1	3378.1	0.00
592	3342.	0.	-3328.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3363.6	3363.6	0.00
593	3328.	0.	-3314.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3349.3	3349.3	0.00

594	3314.	0.	-3299.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3335.1	3335.1	0.00
595	3299.	0.	-3285.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3321.1	3321.1	0.00
596	3285.	0.	-3272.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3307.3	3307.3	0.00
597	3272.	0.	-3258.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3293.6	3293.6	0.00
598	3258.	0.	-3245.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3280.0	3280.0	0.00
599	3245.	0.	-3231.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3266.7	3266.7	0.00
600	3231.	0.	-3218.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3253.5	3253.5	0.00
601	3218.	0.	-3205.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3240.4	3240.4	0.00
602	3205.	0.	-3192.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3227.5	3227.5	0.00
603	3192.	0.	-3179.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3214.7	3214.7	0.00
604	3179.	0.	-3167.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3202.1	3202.1	0.00
605	3167.	0.	-3154.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3189.6	3189.6	0.00
606	3154.	0.	-3142.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3177.3	3177.3	0.00
607	3142.	0.	-3130.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3165.1	3165.1	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Cholpe #1

IOR	UPMN ADV	UPTR ADV	UPTR ADV	LOWR DISP	UPMN DISP	UPTR DISP	LOWR IN	INCR OUT	INCR IN	INCR IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
608	3130.	0.	-3118.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3153.0	3153.0	0.00	
609	3118.	0.	-3106.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3141.1	3141.1	0.00	
610	3106.	0.	-3094.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3129.4	3129.4	0.00	
611	3094.	0.	-3083.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-14.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3117.7	3117.7	0.00	
612	3083.	0.	-3071.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-13.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3106.2	3106.2	0.00	
613	3071.	0.	-3060.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-13.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3094.8	3094.8	0.00	
614	3060.	0.	-3049.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-13.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3083.6	3083.6	0.00	
615	3049.	0.	-3038.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-13.	-3.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-3072.5	3072.5	0.00	
616	3038.	0.	-3027.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-3061.5	3061.5	0.00	
617	3027.	0.	-3016.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-3050.7	3050.7	0.00	
618	3016.	0.	-3005.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-3040.0	3040.0	0.00	
619	3005.	0.	-2995.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-3029.4	3029.4	0.00	
620	2995.	0.	-2984.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-3018.9	3018.9	0.00	
621	2984.	0.	-2974.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-3008.6	3008.6	0.00	
622	2974.	0.	-2964.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2998.3	2998.3	0.00	
623	2964.	0.	-2954.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2988.3	2988.3	0.00	
624	2954.	0.	-2944.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2978.3	2978.3	0.00	
625	2944.	0.	-2934.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2968.4	2968.4	0.00	
626	2934.	0.	-2924.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2958.7	2958.7	0.00	
627	2924.	0.	-2915.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2949.0	2949.0	0.00	
628	2915.	0.	-2905.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2939.5	2939.5	0.00	
629	2905.	0.	-2896.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2930.1	2930.1	0.00	
630	2896.	0.	-2887.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2920.8	2920.8	0.00	
631	2887.	0.	-2877.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2911.6	2911.6	0.00	
632	2877.	0.	-2868.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2902.6	2902.6	0.00	
633	2868.	0.	-2859.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2893.6	2893.6	0.00	
634	2859.	0.	-2851.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2884.7	2884.7	0.00	
635	2851.	0.	-2842.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2876.0	2876.0	0.00	
636	2842.	0.	-2833.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2867.3	2867.3	0.00	
637	2833.	0.	-2825.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2858.8	2858.8	0.00	
638	2825.	0.	-2816.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2850.3	2850.3	0.00	
639	2816.	0.	-2808.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2842.0	2842.0	0.00	
640	2808.	0.	-2800.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2833.8	2833.8	0.00	
641	2800.	0.	-2792.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2825.6	2825.6	0.00	
642	2792.	0.	-2784.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2817.6	2817.6	0.00	
643	2784.	0.	-2776.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2809.6	2809.6	0.00	
644	2776.	0.	-2768.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2801.8	2801.8	0.00	
645	2768.	0.	-2760.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2794.0	2794.0	0.00	
646	2760.	0.	-2753.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2786.4	2786.4	0.00	
647	2753.	0.	-2745.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-13.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2778.8	2778.8	0.00	
648	2745.	0.	-2738.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2771.3	2771.3	0.00	
649	2738.	0.	-2730.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2763.9	2763.9	0.00	
650	2730.	0.	-2723.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2756.6	2756.6	0.00	
651	2723.	0.	-2716.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2749.4	2749.4	0.00	
652	2716.	0.	-2709.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2742.3	2742.3	0.00	

653	2709.	0.	-2702.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2735.3	2735.3	0.00
654	2702.	0.	-2695.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2728.4	2728.4	0.00
655	2695.	0.	-2688.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2721.5	2721.5	0.00
656	2688.	0.	-2681.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2714.8	2714.8	0.00
657	2681.	0.	-2675.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2708.1	2708.1	0.00
658	2675.	0.	-2668.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2701.5	2701.5	0.00
659	2668.	0.	-2662.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2695.0	2695.0	0.00
660	2662.	0.	-2655.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2688.6	2688.6	0.00
661	2655.	0.	-2649.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2682.2	2682.2	0.00
662	2649.	0.	-2643.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2675.9	2675.9	0.00
663	2643.	0.	-2636.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2669.7	2669.7	0.00
664	2636.	0.	-2630.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2663.6	2663.6	0.00
665	2630.	0.	-2624.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2657.6	2657.6	0.00
666	2624.	0.	-2620.	0.	0.	0.	0.	0.	0.	2.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2653.6	2653.6	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Cholpe #1

IOR	UPMN ADV	UPTR ADV	UPTR ADV	LOWR DISP	UPMN DISP	UPTR DISP	LOWR IN	INCR OUT	INCR IN	INCR IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
667	2620.	0.	-2614.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2647.6	2647.6	0.00	
668	2614.	0.	-2609.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2641.7	2641.7	0.00	
669	2609.	0.	-2603.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2635.9	2635.9	0.00	
670	2603.	0.	-2597.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2630.2	2630.2	0.00	
671	2597.	0.	-2591.	0.	0.	0.	0.	0.	0.	0.	0.	28.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2624.6	2624.6	0.00	
672	2591.	0.	-2586.	0.	0.	0.	0.	0.	0.	0.	0.	28.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2619.0	2619.0	0.00	
673	2586.	0.	-2580.	0.	0.	0.	0.	0.	0.	0.	0.	28.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2613.5	2613.5	0.00	
674	2580.	0.	-2575.	0.	0.	0.	0.	0.	0.	0.	0.	28.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2608.1	2608.1	0.00	
675	2575.	0.	-2570.	0.	0.	0.	0.	0.	0.	0.	0.	28.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2602.7	2602.7	0.00	
676	2570.	0.	-2564.	0.	0.	0.	0.	0.	0.	0.	0.	28.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2597.5	2597.5	0.00	
677	2564.	0.	-2559.	0.	0.	0.	0.	0.	0.	0.	0.	28.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2592.2	2592.2	0.00	
678	2559.	0.	-2790.	0.	0.	0.	0.	0.	0.	235.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2822.9	2822.9	0.00	
679	2790.	0.	-2785.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2818.6	2818.6	0.00	
680	2785.	0.	-2781.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2814.3	2814.3	0.00	
681	2781.	0.	-2777.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2810.1	2810.1	0.00	
682	2777.	0.	-2773.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2806.0	2806.0	0.00	
683	2773.	0.	-2769.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2801.9	2801.9	0.00	
684	2769.	0.	-2765.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2797.8	2797.8	0.00	
685	2765.	0.	-2761.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2793.8	2793.8	0.00	
686	2761.	0.	-2757.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2789.9	2789.9	0.00	
687	2757.	0.	-2753.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2786.0	2786.0	0.00	
688	2753.	0.	-2749.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2782.2	2782.2	0.00	
689	2749.	0.	-2745.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2778.4	2778.4	0.00	
690	2745.	0.	-2742.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2774.7	2774.7	0.00	
691	2742.	0.	-2738.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2771.0	2771.0	0.00	
692	2738.	0.	-2734.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2767.4	2767.4	0.00	
693	2734.	0.	-2731.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2763.8	2763.8	0.00	
694	2731.	0.	-2727.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2760.3	2760.3	0.00	
695	2727.	0.	-2724.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2756.8	2756.8	0.00	
696	2724.	0.	-2721.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2753.3	2753.3	0.00	
697	2721.	0.	-2717.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2749.9	2749.9	0.00	
698	2717.	0.	-2714.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2746.6	2746.6	0.00	
699	2714.	0.	-2711.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2743.3	2743.3	0.00	
700	2711.	0.	-2707.	0.	0.	0.	0.	0.	0.	0.	0.	29.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2740.1	2740.1	0.00	
701	2707.	0.	-2704.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2736.9	2736.9	0.00	
702	2704.	0.	-2701.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2733.7	2733.7	0.00	
703	2701.	0.	-2698.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2730.6	2730.6	0.00	
704	2698.	0.	-2695.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2727.5	2727.5	0.00	
705	2695.	0.	-2692.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2724.5	2724.5	0.00	
706	2692.	0.	-2689.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2721.5	2721.5	0.00	
707	2689.	0.	-2686.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2718.6	2718.6	0.00	
708	2686.	0.	-2683.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2715.7	2715.7	0.00	
709	2683.	0.	-2680.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-12.	-3.	0.	0.	-18.	0.	0.	0.	0.	0.	0.	-2712.8	2712.8	0.00	
829	2680.	186.	-2851.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-33.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2898.2	2898.2	0.00	
830	2851.	0.	-2836.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-33.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2882.8	2882.8	0.00	

831	2836.	0.	-2821.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-33.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2867.7	2867.7	0.00
832	2821.	0.	-2807.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-33.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2853.0	2853.0	0.00
833	2807.	0.	-2792.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-32.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2838.5	2838.5	0.00
834	2792.	0.	-2778.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-32.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2824.4	2824.4	0.00
835	2778.	0.	-2765.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-32.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2810.5	2810.5	0.00
836	2765.	0.	-2752.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-32.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2797.0	2797.0	0.00
837	2752.	0.	-2739.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-32.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2783.8	2783.8	0.00
838	2739.	0.	-2726.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-31.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2770.9	2770.9	0.00
839	2726.	0.	-2713.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-31.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2758.2	2758.2	0.00
840	2713.	0.	-2701.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-31.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2745.9	2745.9	0.00
841	2701.	0.	-2689.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-31.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2733.8	2733.8	0.00
842	2689.	0.	-2678.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-30.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2722.0	2722.0	0.00
843	2678.	0.	-2666.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-30.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2710.5	2710.5	0.00
844	2666.	0.	-2655.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-30.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2699.3	2699.3	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Cholpe #1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
845	2655.	0.	-2645.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-30.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2688.3	2688.3	0.00
846	2645.	0.	-2634.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-30.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2677.6	2677.6	0.00
847	2634.	0.	-2624.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-29.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2667.2	2667.2	0.00
848	2624.	0.	-2614.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-29.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2657.1	2657.1	0.00
849	2614.	0.	-2604.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-29.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2647.2	2647.2	0.00
850	2604.	0.	-2595.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-29.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2637.5	2637.5	0.00
851	2595.	0.	-2586.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-28.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2628.1	2628.1	0.00
852	2586.	0.	-2577.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-28.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2619.0	2619.0	0.00
853	2577.	0.	-2568.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-28.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2610.1	2610.1	0.00
854	2568.	0.	-2560.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-28.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2601.4	2601.4	0.00
855	2560.	0.	-2551.	0.	0.	0.	0.	0.	0.	0.	0.	33.	-28.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2593.0	2593.0	0.00
856	2551.	0.	-2543.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-27.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2584.8	2584.8	0.00
857	2543.	0.	-2536.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-27.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2576.9	2576.9	0.00
858	2536.	0.	-2528.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-27.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2569.2	2569.2	0.00
859	2528.	0.	-2521.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-27.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2561.7	2561.7	0.00
860	2521.	0.	-2514.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-27.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2554.4	2554.4	0.00
861	2514.	0.	-2507.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-26.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2547.4	2547.4	0.00
862	2507.	0.	-2500.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-26.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2540.5	2540.5	0.00
863	2500.	0.	-2494.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-26.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2533.9	2533.9	0.00
864	2494.	0.	-2487.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-26.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2527.6	2527.6	0.00
865	2487.	0.	-2481.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-26.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2521.4	2521.4	0.00
866	2481.	0.	-2476.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-25.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2515.4	2515.4	0.00
867	2476.	0.	-2470.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-25.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2509.6	2509.6	0.00
868	2470.	0.	-2465.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-25.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2504.1	2504.1	0.00
869	2465.	0.	-2460.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-25.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2498.7	2498.7	0.00
870	2460.	0.	-2455.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-25.	-4.	0.	0.	-10.	0.	0.	0.	0.	0.	0.	-2493.6	2493.6	0.00
871	2455.	0.	-2450.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-25.	-4.	0.	0.	-11.	0.	0.	0.	0.	0.	0.	-2488.6	2488.6	0.00
872	2450.	0.	-2445.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-24.	-4.	0.	0.	-11.	0.	0.	0.	0.	0.	0.	-2483.8	2483.8	0.00
873	2445.	0.	-2441.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-24.	-4.	0.	0.	-11.	0.	0.	0.	0.	0.	0.	-2479.2	2479.2	0.00
874	2441.	0.	-2436.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-24.	-4.	0.	0.	-11.	0.	0.	0.	0.	0.	0.	-2474.8	2474.8	0.00
875	2436.	0.	-2432.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-24.	-4.	0.	0.	-11.	0.	0.	0.	0.	0.	0.	-2470.6	2470.6	0.00
876	2432.	0.	-2428.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-24.	-4.	0.	0.	-11.	0.	0.	0.	0.	0.	0.	-2466.6	2466.6	0.00
877	2428.	0.	-2425.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-23.	-4.	0.	0.	-11.	0.	0.	0.	0.	0.	0.	-2462.7	2462.7	0.00
878	2425.	0.	-2421.	0.	0.	0.	0.	0.	0.	0.	0.	34.	-23.	-4.	0.	0.	-11.	0.	0.	0.	0.	0.	0.	-2459.0	2459.0	0.00
1047	2421.	2082.	-4504.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4534.6	4534.6	0.00
1048	4504.	0.	-4504.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4535.2	4535.2	0.00
1049	4504.	0.	-4505.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4535.9	4535.9	0.00
1050	4505.	0.	-4506.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4536.7	4536.7	0.00
1051	4506.	0.	-4507.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4537.5	4537.5	0.00
1052	4507.	0.	-4508.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4538.4	4538.4	0.00
1053	4508.	0.	-4509.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4539.4	4539.4	0.00
1054	4509.	0.	-4510.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4540.4	4540.4	0.00
1055	4510.	0.	-4511.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4541.5	4541.5	0.00
1056	4511.	0.	-4512.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4542.6	4542.6	0.00
1057	4512.	0.	-4513.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4543.8	4543.8	0.00

1058	4513.	0.	-4515.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4545.0	4545.0	0.00
1059	4515.	0.	-4516.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-19.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4546.3	4546.3	0.00
1060	4516.	0.	-4517.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4547.7	4547.7	0.00
1061	4517.	0.	-4519.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4549.1	4549.1	0.00
1062	4519.	0.	-4520.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4550.6	4550.6	0.00
1063	4520.	0.	-4522.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4552.1	4552.1	0.00
1064	4522.	0.	-4524.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4553.7	4553.7	0.00
1065	4524.	0.	-4525.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4555.4	4555.4	0.00
1066	4525.	0.	-4527.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4557.0	4557.0	0.00
1067	4527.	0.	-4529.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4558.8	4558.8	0.00
1068	4529.	0.	-4531.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4560.6	4560.6	0.00
1069	4531.	0.	-4533.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-2.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4562.5	4562.5	0.00
1070	4533.	0.	-4535.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4564.4	4564.4	0.00
1071	4535.	0.	-4537.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4566.3	4566.3	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Cholpe #1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
1072	4537.	0.	-4539.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4568.3	4568.3	0.00
1073	4539.	0.	-4541.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4570.4	4570.4	0.00
1074	4541.	0.	-4543.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4572.5	4572.5	0.00
1075	4543.	0.	-4545.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-18.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4574.7	4574.7	0.00
1076	4545.	0.	-4548.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4576.9	4576.9	0.00
1077	4548.	0.	-4550.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4579.2	4579.2	0.00
1078	4550.	0.	-4552.	0.	0.	0.	0.	0.	0.	0.	0.	32.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4581.5	4581.5	0.00
1079	4552.	0.	-4555.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4583.9	4583.9	0.00
1080	4555.	0.	-4557.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4586.3	4586.3	0.00
1081	4557.	0.	-4560.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4588.7	4588.7	0.00
1082	4560.	0.	-4562.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4591.2	4591.2	0.00
1083	4562.	0.	-4565.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4593.8	4593.8	0.00
1084	4565.	0.	-4568.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4596.4	4596.4	0.00
1085	4568.	0.	-4570.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4599.1	4599.1	0.00
1086	4570.	0.	-4573.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4601.7	4601.7	0.00
1087	4573.	0.	-4576.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4604.5	4604.5	0.00
1088	4576.	0.	-4579.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4607.3	4607.3	0.00
1089	4579.	0.	-4582.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4610.1	4610.1	0.00
1090	4582.	0.	-4585.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4613.0	4613.0	0.00
1091	4585.	0.	-4588.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4615.9	4615.9	0.00
1092	4588.	0.	-4591.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-17.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4618.9	4618.9	0.00
1093	4591.	0.	-4594.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4621.9	4621.9	0.00
1094	4594.	0.	-4597.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4624.9	4624.9	0.00
1095	4597.	0.	-4600.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4628.0	4628.0	0.00
1096	4600.	0.	-4603.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4631.1	4631.1	0.00
1097	4603.	0.	-4606.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4634.3	4634.3	0.00
1098	4606.	0.	-4610.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4637.5	4637.5	0.00
1099	4610.	0.	-4613.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4640.8	4640.8	0.00
1100	4613.	0.	-4616.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4644.0	4644.0	0.00
1101	4616.	0.	-4620.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4647.4	4647.4	0.00
1102	4620.	0.	-4623.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4650.8	4650.8	0.00
1103	4623.	0.	-4626.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4654.2	4654.2	0.00
1104	4626.	0.	-4630.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4657.6	4657.6	0.00
1105	4630.	0.	-4633.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4661.1	4661.1	0.00
1106	4633.	0.	-4637.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4664.6	4664.6	0.00
1107	4637.	0.	-4641.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4668.2	4668.2	0.00
1108	4641.	0.	-4644.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4671.8	4671.8	0.00
1109	4644.	0.	-4648.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4675.4	4675.4	0.00
1110	4648.	0.	-4652.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-16.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4679.1	4679.1	0.00
1111	4652.	0.	-4656.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4682.8	4682.8	0.00
1112	4656.	0.	-4659.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4686.6	4686.6	0.00
1113	4659.	0.	-4663.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4690.4	4690.4	0.00
1114	4663.	0.	-4667.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4694.2	4694.2	0.00
1115	4667.	0.	-4671.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4698.0	4698.0	0.00
1116	4671.	0.	-4675.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4701.9	4701.9	0.00

1117	4675.	0.	-4679.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4705.8	4705.8	0.00
1118	4679.	0.	-4683.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4709.8	4709.8	0.00
1119	4683.	0.	-4687.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4713.8	4713.8	0.00
1120	4687.	0.	-4691.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4717.8	4717.8	0.00
1121	4691.	0.	-4695.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4721.9	4721.9	0.00
1122	4695.	0.	-4699.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4725.9	4725.9	0.00
1123	4699.	0.	-4703.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4730.1	4730.1	0.00
1124	4703.	0.	-4708.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4734.2	4734.2	0.00
1125	4708.	0.	-4712.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4738.4	4738.4	0.00
1126	4712.	0.	-4716.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4742.6	4742.6	0.00
1127	4716.	0.	-4720.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4746.9	4746.9	0.00
1128	4720.	0.	-4725.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-15.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4751.1	4751.1	0.00
1129	4725.	0.	-4729.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4755.4	4755.5	0.00
1130	4729.	0.	-4733.	0.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4759.8	4759.8	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Cholpe #1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
1131	4733.	0.	-4738.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4764.2	4764.2	0.00
1132	4738.	0.	-4742.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4768.5	4768.5	0.00
1133	4742.	0.	-4747.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4773.0	4773.0	0.00
1134	4747.	0.	-4751.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4777.4	4777.4	0.00
1135	4751.	0.	-4756.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4781.9	4781.9	0.00
1136	4756.	0.	-4760.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4786.4	4786.4	0.00
1137	4760.	0.	-4765.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4791.0	4791.0	0.00
1138	4765.	0.	-4770.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4795.5	4795.5	0.00
1139	4770.	0.	-4774.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4800.1	4800.1	0.00
1140	4774.	0.	-4779.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4804.7	4804.7	0.00
1141	4779.	0.	-4784.	0.	0.	0.	0.	0.	0.	0.	31.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4809.4	4809.4	0.00
1142	4784.	0.	-4788.	0.	0.	0.	0.	0.	0.	0.	30.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4814.1	4814.1	0.00
1143	4788.	0.	-4793.	0.	0.	0.	0.	0.	0.	0.	30.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4818.8	4818.8	0.00
1144	4793.	0.	-4798.	0.	0.	0.	0.	0.	0.	0.	30.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4823.5	4823.5	0.00
1145	4798.	0.	-4803.	0.	0.	0.	0.	0.	0.	0.	30.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4828.2	4828.2	0.00
1146	4803.	0.	-4807.	0.	0.	0.	0.	0.	0.	0.	30.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4833.0	4833.0	0.00
1147	4807.	0.	-4812.	0.	0.	0.	0.	0.	0.	0.	30.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4837.8	4837.8	0.00
1148	4812.	0.	-4817.	0.	0.	0.	0.	0.	0.	0.	30.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4842.6	4842.6	0.00
1149	4817.	0.	-4822.	0.	0.	0.	0.	0.	0.	0.	30.	-14.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4847.5	4847.5	0.00
1150	4822.	0.	-4827.	0.	0.	0.	0.	0.	0.	0.	30.	-13.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4852.4	4852.4	0.00
1151	4827.	0.	-4832.	0.	0.	0.	0.	0.	0.	0.	30.	-13.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4857.3	4857.3	0.00
1152	4832.	0.	-4837.	0.	0.	0.	0.	0.	0.	0.	30.	-13.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4862.2	4862.2	0.00
1153	4837.	0.	-4842.	0.	0.	0.	0.	0.	0.	0.	30.	-13.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4867.1	4867.1	0.00
1154	4842.	0.	-4847.	0.	0.	0.	0.	0.	0.	0.	30.	-13.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4872.1	4872.1	0.00
1155	4847.	0.	-4852.	0.	0.	0.	0.	0.	0.	0.	30.	-13.	-3.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-4877.1	4877.1	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Poydras #1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
126	2.	0.	-6.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-7.0	7.0	0.00
127	6.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-11.1	11.1	0.00
128	10.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.4	14.4	0.00
129	13.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.2	17.2	0.00
130	16.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.7	19.7	0.00
131	19.	0.	-21.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.9	21.9	0.00
132	21.	0.	-23.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-23.8	23.8	0.00
133	23.	0.	-24.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-25.5	25.5	0.00
134	24.	0.	-26.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-27.0	27.0	0.00
135	26.	0.	-27.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-28.3	28.3	0.00
136	27.	0.	-28.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-29.5	29.5	0.00
137	28.	0.	-29.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-30.5	30.5	0.00
138	29.	0.	-30.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-31.4	31.4	0.00
139	30.	0.	-31.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-32.2	32.2	0.00
140	31.	0.	-32.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-32.9	32.9	0.00
141	32.	0.	-32.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-33.5	33.5	0.00
142	32.	0.	-33.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-34.1	34.1	0.00
143	33.	0.	-33.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-34.5	34.5	0.00
144	33.	0.	-34.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-35.0	35.0	0.00
145	34.	0.	-34.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-35.3	35.3	0.00
146	34.	0.	-35.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-35.7	35.7	0.00
147	35.	0.	-35.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-36.0	36.0	0.00
148	35.	0.	-35.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-36.3	36.3	0.00
149	35.	0.	-35.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-36.5	36.5	0.00
150	35.	0.	-36.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-36.7	36.7	0.00
151	36.	0.	-36.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-36.9	36.9	0.00
152	36.	0.	-36.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-37.1	37.1	0.00
153	36.	0.	-36.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-37.2	37.2	0.00
154	36.	0.	-36.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-37.4	37.4	0.00
155	36.	0.	-36.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-37.5	37.5	0.00
156	36.	0.	-36.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-37.6	37.6	0.00
157	36.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-37.7	37.7	0.00
158	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-37.9	37.9	0.00
159	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.0	38.0	0.00
160	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.0	38.0	0.00
161	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.1	38.1	0.00
162	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.1	38.1	0.00
163	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.2	38.2	0.00
164	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.3	38.3	0.00
165	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.3	38.3	0.00
166	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.4	38.3	0.00
167	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.4	38.4	0.00
168	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.4	38.4	0.00
169	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.4	38.4	0.00
170	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.5	38.5	0.00

171	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.5	38.5	0.00
172	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.5	38.5	0.00
173	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.5	38.5	0.00
174	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.6	38.6	0.00
175	37.	0.	-37.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.6	38.6	0.00
176	37.	0.	-38.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.6	38.6	0.00
177	38.	0.	-38.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.6	38.6	0.00
178	38.	0.	-38.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.6	38.6	0.00
179	38.	0.	-38.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.6	38.6	0.00
180	38.	0.	-38.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.7	38.7	0.00
181	38.	0.	-38.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.7	38.7	0.00
182	38.	0.	-38.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-38.7	38.7	0.00
183	38.	0.	-37.	0.	0.	0.	1.	0.	0.	0.	0.	1.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-40.2	40.2	0.00
184	37.	0.	-37.	0.	0.	0.	1.	0.	0.	0.	0.	1.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-40.1	40.0	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Poydras #1

IOR	UPMN ADV	UPTR ADV	UPTR ADV	LOWR DISP	UPMN DISP	UPTR DISP	LOWR IN	LOWR OUT	INCR IN	INCR IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
185	37.	0.	-37.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-40.1	40.1	0.00	
186	37.	0.	-38.	0.	0.	0.	1.	0.	0.	1.	0.	2.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-41.0	41.0	0.00	
187	38.	0.	-38.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-41.4	41.4	0.00	
188	38.	0.	-39.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-41.8	41.8	0.00	
189	39.	0.	-39.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-42.3	42.3	0.00	
190	39.	0.	-40.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-42.9	42.9	0.00	
191	40.	0.	-40.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-43.5	43.5	0.00	
192	40.	0.	-41.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-44.3	44.3	0.00	
193	41.	0.	-42.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-45.2	45.2	0.00	
194	42.	0.	-43.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-46.1	46.1	0.00	
195	43.	0.	-44.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-47.1	47.1	0.00	
196	44.	0.	-45.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-48.2	48.2	0.00	
197	45.	0.	-46.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-49.3	49.3	0.00	
198	46.	0.	-47.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-50.5	50.5	0.00	
199	47.	0.	-48.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-51.7	51.7	0.00	
200	48.	0.	-50.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-52.9	52.9	0.00	
201	50.	0.	-51.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-54.2	54.2	0.00	
202	51.	0.	-52.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-55.6	55.6	0.00	
203	52.	0.	-54.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-56.9	56.9	0.00	
204	54.	0.	-55.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-58.3	58.3	0.00	
205	55.	0.	-56.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-59.7	59.7	0.00	
206	56.	0.	-58.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-61.2	61.2	0.00	
207	58.	0.	-59.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-62.7	62.7	0.00	
208	59.	0.	-61.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-64.2	64.2	0.00	
209	61.	0.	-62.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-65.7	65.7	0.00	
210	62.	0.	-64.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-67.3	67.3	0.00	
211	64.	0.	-65.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-68.8	68.8	0.00	
212	65.	0.	-67.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-70.4	70.4	0.00	
213	67.	0.	-69.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-72.0	72.0	0.00	
214	69.	0.	-70.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-73.6	73.6	0.00	
215	70.	0.	-72.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-75.2	75.2	0.00	
216	72.	0.	-73.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-76.9	76.9	0.00	
217	73.	0.	-75.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-78.5	78.5	0.00	
218	75.	0.	-77.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-80.2	80.2	0.00	
219	77.	0.	-78.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-81.9	81.9	0.00	
220	78.	0.	-80.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-83.5	83.5	0.00	
221	80.	0.	-82.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-85.2	85.2	0.00	
222	82.	0.	-83.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-86.9	86.9	0.00	
223	83.	0.	-85.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-88.7	88.7	0.00	
224	85.	0.	-87.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-90.4	90.4	0.00	
225	87.	0.	-89.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-92.1	92.1	0.00	
226	89.	0.	-90.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-93.8	93.8	0.00	
227	90.	0.	-92.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-95.6	95.6	0.00	
228	92.	0.	-94.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-2.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-97.3	97.3	0.00	

DISSOLVED OXYGEN LOADING FOR REACH 3: Chamberlin Canal #1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
272	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-0.6	0.6	0.00	
273	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-0.7	0.7	0.00	
274	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-0.7	0.7	0.00	
275	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-0.7	0.7	0.00	
276	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-0.8	0.8	0.00	
277	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-0.8	0.8	0.00	
278	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-0.8	0.8	0.00	
279	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-0.9	0.9	0.00	
280	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-0.9	0.9	0.00	
281	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-0.9	0.9	0.00	
282	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-0.9	0.9	0.00	
283	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.0	1.0	0.00	
284	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.0	1.0	0.00	
285	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.0	1.0	0.00	
286	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.1	1.1	0.00	
287	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.1	1.1	0.00	
288	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.1	1.1	0.00	
289	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.1	1.1	0.00	
290	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.2	1.2	0.00	
291	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.2	1.2	0.00	
292	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.2	1.2	0.00	
293	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.2	1.2	0.00	
294	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.2	1.2	0.00	
295	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.3	1.3	0.00	
296	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.3	1.3	0.00	
297	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.3	1.3	0.00	
298	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.3	1.3	0.00	
299	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.4	1.4	0.00	
300	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.4	1.4	0.00	
301	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.4	1.4	0.00	
302	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.4	1.4	0.00	
303	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.4	1.4	0.00	
304	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.5	1.5	0.00	
305	1.	0.	-2.	0.	0.	0.	0.	0.	0.	1.	0.	1.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.4	3.4	0.00
306	2.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.2	3.2	0.00
307	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.2	3.2	0.00
308	1.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.2	3.2	0.00
309	1.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.2	3.2	0.00
310	2.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.3	3.3	0.00
311	2.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.3	3.3	0.00
312	2.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.4	3.4	0.00
313	2.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.4	3.4	0.00
314	2.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.5	3.5	0.00
315	2.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.6	3.6	0.00
316	2.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.6	3.6	0.00

317	2.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.7	3.7	0.00
318	2.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.8	3.8	0.00
319	2.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.8	3.8	0.00
320	2.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-3.9	3.9	0.00
321	2.	0.	-2.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-4.0	4.0	0.00
322	2.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-4.0	4.0	0.00
323	3.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-4.1	4.1	0.00
324	3.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-4.2	4.2	0.00
325	3.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-4.3	4.3	0.00
326	3.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-4.3	4.3	0.00
327	3.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-4.4	4.4	0.00
328	3.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-4.5	4.5	0.00
329	3.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-4.6	4.6	0.00
330	3.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-4.6	4.6	0.00

DISSOLVED OXYGEN LOADING FOR REACH 3: Chamberlin Canal #1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
331	3.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-4.7	4.7	0.00
332	3.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-4.8	4.8	0.00
333	3.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-4.9	4.9	0.00
334	3.	0.	-3.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-5.0	5.0	0.00
335	3.	0.	-4.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-5.0	5.0	0.00
336	4.	0.	-4.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-5.1	5.1	0.00
337	4.	0.	-4.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-5.2	5.2	0.00
338	4.	0.	-4.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-5.3	5.3	0.00
339	4.	0.	-4.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-5.4	5.4	0.00
340	4.	0.	-4.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-5.5	5.5	0.00
341	4.	0.	-4.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-5.5	5.5	0.00
342	4.	0.	-4.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-5.6	5.6	0.00
343	4.	0.	-4.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-5.7	5.7	0.00
344	4.	0.	-4.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-5.8	5.8	0.00
345	4.	0.	-4.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-5.9	5.9	0.00
346	4.	0.	-4.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	0.	0.	0.	1.	0.	0.	-6.0	6.0	0.00

DISSOLVED OXYGEN LOADING FOR REACH 4: Intracoastal Waterwa

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
420	4814.	0.	-4797.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-10.	-1.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4815.7	4815.7	0.00
421	4797.	0.	-4780.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-10.	-1.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4798.7	4798.7	0.00
422	4780.	0.	-4763.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-10.	-1.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4781.8	4781.8	0.00
423	4763.	0.	-4747.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-10.	-1.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4765.1	4765.1	0.00
424	4747.	0.	-4730.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-10.	-1.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4748.5	4748.5	0.00
425	4730.	0.	-4714.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-10.	-1.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4732.1	4732.1	0.00
426	4714.	0.	-4697.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-10.	-1.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4715.9	4715.9	0.00
427	4697.	0.	-4681.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-10.	-1.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4699.8	4699.8	0.00
428	4681.	0.	-4666.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-1.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4684.3	4684.3	0.00
429	4666.	0.	-4650.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-1.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4668.5	4668.5	0.00
430	4650.	0.	-4634.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-1.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4652.8	4652.8	0.00
431	4634.	0.	-4619.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4637.3	4637.3	0.00
432	4619.	0.	-4603.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4622.0	4622.0	0.00
433	4603.	0.	-4588.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4606.8	4606.8	0.00
434	4588.	0.	-4573.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4591.7	4591.7	0.00
435	4573.	0.	-4558.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4576.8	4576.8	0.00
436	4558.	0.	-4543.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4562.0	4562.0	0.00
437	4543.	0.	-4529.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4547.4	4547.4	0.00
438	4529.	0.	-4514.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4532.9	4532.9	0.00
439	4514.	0.	-4500.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4518.6	4518.6	0.00
440	4500.	0.	-4486.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4504.3	4504.3	0.00
441	4486.	0.	-4472.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4490.3	4490.3	0.00
442	4472.	0.	-4458.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4476.3	4476.3	0.00
443	4458.	0.	-4444.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4462.5	4462.5	0.00
444	4444.	0.	-4430.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4448.9	4448.9	0.00
445	4430.	0.	-4417.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4435.3	4435.3	0.00
446	4417.	0.	-4403.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4421.9	4421.9	0.00
447	4403.	0.	-4390.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4408.7	4408.7	0.00
448	4390.	0.	-4377.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4395.5	4395.5	0.00
449	4377.	0.	-4364.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4382.5	4382.5	0.00
450	4364.	0.	-4351.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4369.6	4369.6	0.00
451	4351.	0.	-4338.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4356.9	4356.9	0.00
452	4338.	0.	-4326.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4344.2	4344.2	0.00
453	4326.	0.	-4313.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4331.7	4331.7	0.00
454	4313.	0.	-4301.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4319.3	4319.3	0.00
455	4301.	0.	-4289.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-10.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4307.1	4307.1	0.00
456	4289.	0.	-4277.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4295.1	4295.1	0.00
457	4277.	0.	-4265.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4283.0	4283.0	0.00
458	4265.	0.	-4253.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4271.1	4271.1	0.00
459	4253.	0.	-4241.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4259.3	4259.3	0.00
460	4241.	0.	-4229.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4247.6	4247.6	0.00
461	4229.	0.	-4218.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4236.1	4236.1	0.00
462	4218.	0.	-4206.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4224.6	4224.6	0.00
463	4206.	0.	-4200.	0.	0.	0.	0.	0.	0.	6.	0.	7.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4219.0	4219.0	0.00
464	4200.	0.	-4189.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4207.4	4207.4	0.00

465	4189.	0.	-4177.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4195.9	4195.9	0.00
466	4177.	0.	-4166.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4184.6	4184.6	0.00
467	4166.	0.	-4155.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4173.4	4173.4	0.00
468	4155.	0.	-4144.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4162.3	4162.3	0.00
469	4144.	0.	-4133.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4151.3	4151.3	0.00
470	4133.	0.	-4122.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4140.4	4140.4	0.00
471	4122.	0.	-4111.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4129.7	4129.7	0.00
472	4111.	0.	-4100.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4119.0	4119.0	0.00
473	4100.	0.	-4090.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4108.5	4108.5	0.00
474	4090.	0.	-4079.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4098.1	4098.1	0.00
475	4079.	0.	-4069.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4087.7	4087.7	0.00
476	4069.	0.	-4059.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4077.5	4077.5	0.00
477	4059.	0.	-4049.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4067.4	4067.4	0.00
478	4049.	0.	-4039.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4057.4	4057.4	0.00

DISSOLVED OXYGEN LOADING FOR REACH 4: Intracoastal Waterwa

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
479	4039.	0.	-4029.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4047.5	4047.5	0.00
480	4029.	0.	-4019.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4037.6	4037.6	0.00
481	4019.	0.	-4009.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4027.9	4027.9	0.00
482	4009.	0.	-4000.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4018.3	4018.3	0.00
483	4000.	0.	-3990.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-4008.8	4008.8	0.00
484	3990.	0.	-3981.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3999.4	3999.4	0.00
485	3981.	0.	-3971.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3990.1	3990.1	0.00
486	3971.	0.	-3962.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3980.9	3980.9	0.00
487	3962.	0.	-3953.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3971.7	3971.7	0.00
488	3953.	0.	-3944.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3962.7	3962.7	0.00
489	3944.	0.	-3935.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3953.7	3953.7	0.00
490	3935.	0.	-3926.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3944.9	3944.9	0.00
491	3926.	0.	-3918.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3936.1	3936.1	0.00
492	3918.	0.	-3909.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3927.5	3927.5	0.00
493	3909.	0.	-3900.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3918.9	3918.9	0.00
494	3900.	0.	-3892.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3910.4	3910.4	0.00
495	3892.	0.	-3883.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3902.0	3902.0	0.00
496	3883.	0.	-3875.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3893.6	3893.6	0.00
497	3875.	0.	-3867.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3885.4	3885.4	0.00
498	3867.	0.	-3859.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3877.3	3877.3	0.00
499	3859.	0.	-3851.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3869.2	3869.2	0.00
500	3851.	0.	-3843.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3861.2	3861.2	0.00
501	3843.	0.	-3835.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3853.3	3853.3	0.00
502	3835.	0.	-3827.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3845.5	3845.5	0.00
503	3827.	0.	-3819.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3837.7	3837.7	0.00
504	3819.	0.	-3812.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3830.1	3830.1	0.00
505	3812.	0.	-3804.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3822.5	3822.5	0.00
506	3804.	0.	-3796.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3815.0	3815.0	0.00
507	3796.	0.	-3789.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3807.5	3807.5	0.00
508	3789.	0.	-3782.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3800.2	3800.2	0.00
509	3782.	0.	-3774.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3792.9	3792.9	0.00
510	3774.	0.	-3767.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3785.7	3785.7	0.00
511	3767.	0.	-3760.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-2.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3778.6	3778.6	0.00
512	3760.	0.	-3753.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3771.5	3771.5	0.00
513	3753.	0.	-3746.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3764.5	3764.5	0.00
514	3746.	0.	-3739.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3757.6	3757.6	0.00
515	3739.	0.	-3732.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3750.8	3750.8	0.00
516	3732.	0.	-3726.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3744.0	3744.0	0.00
517	3726.	0.	-3719.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3737.3	3737.3	0.00
518	3719.	0.	-3712.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3730.6	3730.6	0.00
519	3712.	0.	-3706.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3724.1	3724.1	0.00
520	3706.	0.	-3699.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3717.6	3717.6	0.00
521	3699.	0.	-3693.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3711.1	3711.1	0.00
522	3693.	0.	-3686.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3704.8	3704.8	0.00
523	3686.	0.	-3680.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3698.5	3698.5	0.00

524	3680.	0.	-3674.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3692.2	3692.2	0.00
525	3674.	0.	-3668.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3686.0	3686.0	0.00
526	3668.	0.	-3662.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3679.9	3679.9	0.00
527	3662.	0.	-3656.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3673.9	3673.9	0.00
528	3656.	0.	-3650.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3667.9	3667.9	0.00
529	3650.	0.	-3644.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-9.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3662.0	3662.0	0.00
530	3644.	0.	-3638.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3656.1	3656.1	0.00
531	3638.	0.	-3632.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3650.3	3650.3	0.00
532	3632.	0.	-3626.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3644.5	3644.5	0.00
533	3626.	0.	-3621.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3638.8	3638.8	0.00
534	3621.	0.	-3615.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3633.2	3633.2	0.00
535	3615.	0.	-3609.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3627.6	3627.6	0.00
536	3609.	0.	-3604.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3622.1	3622.1	0.00
537	3604.	0.	-3598.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3616.7	3616.7	0.00

DISSOLVED OXYGEN LOADING FOR REACH 4: Intracoastal Waterwa

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
538	3598.	0.	-3593.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3611.3	3611.3	0.00
539	3593.	0.	-3588.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3605.9	3605.9	0.00
540	3588.	0.	-3582.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3600.6	3600.6	0.00
541	3582.	0.	-3577.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3595.4	3595.4	0.00
542	3577.	0.	-3572.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3590.2	3590.2	0.00
543	3572.	0.	-3567.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3585.0	3585.0	0.00
544	3567.	0.	-3562.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3579.9	3579.9	0.00
545	3562.	0.	-3557.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3574.9	3574.9	0.00
546	3557.	0.	-3552.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3569.9	3569.9	0.00
547	3552.	0.	-3547.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3565.0	3565.0	0.00
548	3547.	0.	-3542.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3560.1	3560.1	0.00
549	3542.	0.	-3537.	0.	0.	0.	0.	0.	0.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3555.3	3555.3	0.00
550	3537.	0.	-3540.	0.	0.	0.	0.	0.	8.	0.	13.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3558.9	3558.9	0.00
551	3540.	0.	-3535.	0.	0.	0.	0.	0.	0.	0.	14.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3553.6	3553.6	0.00
552	3535.	0.	-3530.	0.	0.	0.	0.	0.	0.	0.	14.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3548.5	3548.5	0.00
553	3530.	0.	-3525.	0.	0.	0.	0.	0.	0.	0.	14.	-8.	-3.	0.	0.	-7.	0.	0.	0.	0.	0.	0.	-3543.3	3543.3	0.00

DISSOLVED OXYGEN LOADING FOR REACH 5: Bayou Plaquemine

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
710	273.	0.	-290.	0.	0.	0.	0.	0.	0.	0.	8.	-3.	0.	0.	0.	-3.	0.	0.	0.	14.	0.	0.	-295.4	295.4	0.00
711	290.	0.	-306.	0.	0.	0.	0.	0.	0.	0.	8.	-3.	0.	0.	0.	-3.	0.	0.	0.	14.	0.	0.	-311.8	311.8	0.00
712	306.	0.	-322.	0.	0.	0.	0.	0.	0.	0.	7.	-3.	0.	0.	0.	-3.	0.	0.	0.	14.	0.	0.	-327.4	327.4	0.00
713	322.	0.	-336.	0.	0.	0.	0.	0.	0.	0.	7.	-3.	0.	0.	0.	-3.	0.	0.	0.	14.	0.	0.	-342.1	342.1	0.00
714	336.	0.	-350.	0.	0.	0.	0.	0.	0.	0.	6.	-3.	0.	0.	0.	-3.	0.	0.	0.	14.	0.	0.	-356.0	356.0	0.00
715	350.	0.	-363.	0.	0.	0.	0.	0.	0.	0.	6.	-4.	0.	0.	0.	-3.	0.	0.	0.	14.	0.	0.	-369.2	369.2	0.00
716	363.	0.	-375.	0.	0.	0.	0.	0.	0.	0.	5.	-4.	0.	0.	0.	-3.	0.	0.	0.	14.	0.	0.	-381.6	381.6	0.00
717	375.	0.	-387.	0.	0.	0.	0.	0.	0.	0.	5.	-4.	0.	0.	0.	-3.	0.	0.	0.	14.	0.	0.	-393.4	393.4	0.00
718	387.	0.	-398.	0.	0.	0.	0.	0.	0.	0.	4.	-4.	0.	0.	0.	-3.	0.	0.	0.	13.	0.	0.	-404.4	404.4	0.00
719	398.	0.	-408.	0.	0.	0.	0.	0.	0.	0.	4.	-4.	0.	0.	0.	-3.	0.	0.	0.	13.	0.	0.	-414.8	414.8	0.00
720	408.	0.	-417.	0.	0.	0.	0.	0.	0.	0.	3.	-4.	0.	0.	0.	-3.	0.	0.	0.	13.	0.	0.	-424.5	424.5	0.00
721	417.	0.	-426.	0.	0.	0.	0.	0.	0.	0.	3.	-4.	0.	0.	0.	-3.	0.	0.	0.	13.	0.	0.	-433.7	433.7	0.00
722	426.	0.	-435.	0.	0.	0.	0.	0.	0.	0.	3.	-5.	0.	0.	0.	-3.	0.	0.	0.	13.	0.	0.	-442.3	442.3	0.00
723	435.	0.	-443.	0.	0.	0.	0.	0.	0.	0.	3.	-5.	0.	0.	0.	-3.	0.	0.	0.	13.	0.	0.	-450.3	450.3	0.00
724	443.	0.	-450.	0.	0.	0.	0.	0.	0.	0.	2.	-5.	0.	0.	0.	-3.	0.	0.	0.	13.	0.	0.	-457.7	457.7	0.00
725	450.	0.	-457.	0.	0.	0.	0.	0.	0.	0.	2.	-5.	0.	0.	0.	-3.	0.	0.	0.	13.	0.	0.	-464.7	464.7	0.00
726	457.	0.	-463.	0.	0.	0.	0.	0.	0.	0.	2.	-5.	0.	0.	0.	-3.	0.	0.	0.	12.	0.	0.	-471.1	471.1	0.00
727	463.	0.	-469.	0.	0.	0.	0.	0.	0.	0.	2.	-5.	0.	0.	0.	-3.	0.	0.	0.	12.	0.	0.	-477.1	477.1	0.00
728	469.	0.	-474.	0.	0.	0.	0.	0.	0.	0.	1.	-5.	0.	0.	0.	-3.	0.	0.	0.	12.	0.	0.	-482.6	482.6	0.00
729	474.	0.	-479.	0.	0.	0.	0.	0.	0.	0.	1.	-6.	0.	0.	0.	-3.	0.	0.	0.	12.	0.	0.	-487.6	487.6	0.00
730	479.	0.	-484.	0.	0.	0.	0.	0.	0.	0.	1.	-6.	0.	0.	0.	-3.	0.	0.	0.	12.	0.	0.	-492.3	492.3	0.00
731	484.	0.	-488.	0.	0.	0.	0.	0.	0.	0.	1.	-6.	0.	0.	0.	-3.	0.	0.	0.	12.	0.	0.	-496.5	496.5	0.00
732	488.	0.	-492.	0.	0.	0.	0.	0.	0.	0.	1.	-6.	0.	0.	0.	-3.	0.	0.	0.	12.	0.	0.	-500.3	500.3	0.00
733	492.	0.	-495.	0.	0.	0.	0.	0.	0.	0.	1.	-6.	0.	0.	0.	-3.	0.	0.	0.	12.	0.	0.	-503.8	503.8	0.00
734	495.	0.	-498.	0.	0.	0.	0.	0.	0.	0.	0.	-6.	0.	0.	0.	-3.	0.	0.	0.	12.	0.	0.	-506.9	506.9	0.00
735	498.	0.	-500.	0.	0.	0.	0.	0.	0.	0.	0.	-6.	0.	0.	0.	-3.	0.	0.	0.	11.	0.	0.	-509.6	509.6	0.00
736	500.	0.	-503.	0.	0.	0.	0.	0.	0.	0.	0.	-6.	0.	0.	0.	-3.	0.	0.	0.	11.	0.	0.	-512.0	512.0	0.00
737	503.	0.	-505.	0.	0.	0.	0.	0.	0.	0.	0.	-7.	0.	0.	0.	-3.	0.	0.	0.	11.	0.	0.	-514.1	514.1	0.00
738	505.	0.	-506.	0.	0.	0.	0.	0.	0.	0.	0.	-7.	0.	0.	0.	-3.	0.	0.	0.	11.	0.	0.	-515.8	515.8	0.00
739	506.	0.	-534.	0.	0.	0.	0.	0.	0.	28.	0.	1.	-8.	-2.	0.	0.	-3.	0.	0.	0.	11.	0.	0.	-546.3	546.3	0.00
740	534.	0.	-533.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-8.	-2.	0.	0.	-3.	0.	0.	0.	11.	0.	0.	-545.5	545.5	0.00
741	533.	0.	-532.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-8.	-2.	0.	0.	-3.	0.	0.	0.	11.	0.	0.	-544.6	544.6	0.00
742	532.	0.	-531.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-8.	-2.	0.	0.	-3.	0.	0.	0.	11.	0.	0.	-543.6	543.6	0.00
743	531.	0.	-530.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-8.	-2.	0.	0.	-3.	0.	0.	0.	10.	0.	0.	-542.4	542.4	0.00
744	530.	0.	-528.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-8.	-2.	0.	0.	-3.	0.	0.	0.	10.	0.	0.	-541.0	541.0	0.00
745	528.	0.	-527.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-8.	-2.	0.	0.	-3.	0.	0.	0.	10.	0.	0.	-539.5	539.5	0.00
746	527.	0.	-525.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-8.	-2.	0.	0.	-3.	0.	0.	0.	10.	0.	0.	-537.9	537.9	0.00
747	525.	0.	-523.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-8.	-2.	0.	0.	-3.	0.	0.	0.	10.	0.	0.	-536.1	536.1	0.00
748	523.	0.	-521.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-8.	-2.	0.	0.	-3.	0.	0.	0.	10.	0.	0.	-534.2	534.2	0.00
749	521.	0.	-519.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-9.	-2.	0.	0.	-3.	0.	0.	0.	10.	0.	0.	-532.2	532.2	0.00
750	519.	0.	-517.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-9.	-2.	0.	0.	-3.	0.	0.	0.	10.	0.	0.	-530.1	530.1	0.00
751	517.	0.	-515.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-9.	-2.	0.	0.	-3.	0.	0.	0.	9.	0.	0.	-527.8	527.8	0.00
752	515.	0.	-512.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-9.	-2.	0.	0.	-3.	0.	0.	0.	9.	0.	0.	-525.5	525.5	0.00
753	512.	0.	-510.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-9.	-2.	0.	0.	-3.	0.	0.	0.	9.	0.	0.	-523.0	523.0	0.00
754	510.	0.	-507.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-9.	-2.	0.	0.	-3.	0.	0.	0.	9.	0.	0.	-520.4	520.4	0.00

755	507.	0.	-504.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-9.	-2.	0.	0.	-3.	0.	0.	0.	9.	0.	0.	-517.8	517.8	0.00
756	504.	0.	-502.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-9.	-2.	0.	0.	-3.	0.	0.	0.	9.	0.	0.	-515.0	515.0	0.00
757	502.	0.	-499.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-9.	-2.	0.	0.	-3.	0.	0.	0.	9.	0.	0.	-512.1	512.1	0.00
758	499.	0.	-496.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-9.	-2.	0.	0.	-3.	0.	0.	0.	9.	0.	0.	-509.2	509.2	0.00
759	496.	0.	-493.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-9.	-2.	0.	0.	-3.	0.	0.	0.	8.	0.	0.	-506.2	506.2	0.00
760	493.	0.	-489.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-10.	-2.	0.	0.	-3.	0.	0.	0.	8.	0.	0.	-503.1	503.1	0.00
761	489.	0.	-486.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-10.	-2.	0.	0.	-3.	0.	0.	0.	8.	0.	0.	-499.9	499.9	0.00
762	486.	0.	-483.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-10.	-1.	0.	0.	-3.	0.	0.	0.	8.	0.	0.	-496.6	496.6	0.00
763	483.	0.	-479.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-1.	0.	0.	-3.	0.	0.	0.	8.	0.	0.	-493.3	493.3	0.00
764	479.	0.	-476.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-1.	0.	0.	-3.	0.	0.	0.	8.	0.	0.	-489.9	489.9	0.00
765	476.	0.	-472.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-1.	0.	0.	-3.	0.	0.	0.	8.	0.	0.	-486.4	486.4	0.00
766	472.	0.	-469.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-1.	0.	0.	-3.	0.	0.	0.	8.	0.	0.	-482.9	482.9	0.00
767	469.	0.	-465.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-1.	0.	0.	-3.	0.	0.	0.	7.	0.	0.	-479.3	479.3	0.00
768	465.	0.	-461.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-1.	0.	0.	-3.	0.	0.	0.	7.	0.	0.	-475.6	475.6	0.00

DISSOLVED OXYGEN LOADING FOR REACH 5: Bayou Plaquemine

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
769	461.	0.	-458.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-1.	0.	0.	-3.	0.	0.	0.	7.	0.	0.	-471.9	471.9	0.00
770	458.	0.	-454.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-10.	-1.	0.	0.	-3.	0.	0.	0.	7.	0.	0.	-468.1	468.1	0.00
771	454.	0.	-450.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-10.	-1.	0.	0.	-3.	0.	0.	0.	7.	0.	0.	-464.3	464.3	0.00
772	450.	0.	-446.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-11.	-1.	0.	0.	-3.	0.	0.	0.	7.	0.	0.	-460.4	460.4	0.00
773	446.	0.	-442.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-11.	-1.	0.	0.	-3.	0.	0.	0.	7.	0.	0.	-456.5	456.5	0.00
774	442.	0.	-438.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-11.	-1.	0.	0.	-3.	0.	0.	0.	7.	0.	0.	-452.5	452.5	0.00
775	438.	0.	-434.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-11.	-1.	0.	0.	-3.	0.	0.	0.	7.	0.	0.	-448.5	448.5	0.00
776	434.	0.	-430.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-11.	-1.	0.	0.	-3.	0.	0.	0.	6.	0.	0.	-444.4	444.4	0.00
777	430.	0.	-425.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-11.	-1.	0.	0.	-3.	0.	0.	0.	6.	0.	0.	-440.3	440.3	0.00
778	425.	0.	-421.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-11.	-1.	0.	0.	-3.	0.	0.	0.	6.	0.	0.	-436.1	436.1	0.00
779	421.	0.	-418.	0.	0.	0.	0.	0.	0.	1.	0.	5.	-11.	-1.	0.	0.	-3.	0.	0.	0.	6.	0.	0.	-433.2	433.2	0.00
780	418.	0.	-414.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-11.	-1.	0.	0.	-3.	0.	0.	0.	6.	0.	0.	-429.0	429.0	0.00
781	414.	0.	-410.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-11.	-1.	0.	0.	-3.	0.	0.	0.	6.	0.	0.	-424.7	424.7	0.00
782	410.	0.	-406.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-11.	-1.	0.	0.	-3.	0.	0.	0.	6.	0.	0.	-420.9	420.9	0.00
783	406.	0.	-401.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-11.	-1.	0.	0.	-3.	0.	0.	0.	6.	0.	0.	-416.5	416.5	0.00
784	401.	0.	-397.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-11.	-1.	0.	0.	-3.	0.	0.	0.	5.	0.	0.	-412.2	412.2	0.00
785	397.	0.	-392.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-12.	-1.	0.	0.	-3.	0.	0.	0.	5.	0.	0.	-407.9	407.9	0.00
786	392.	0.	-388.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-12.	-1.	0.	0.	-3.	0.	0.	0.	5.	0.	0.	-403.4	403.4	0.00
787	388.	0.	-383.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-12.	-1.	0.	0.	-3.	0.	0.	0.	5.	0.	0.	-399.0	399.0	0.00
788	383.	0.	-379.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-12.	-1.	0.	0.	-3.	0.	0.	0.	5.	0.	0.	-394.5	394.5	0.00
789	379.	0.	-374.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-12.	-1.	0.	0.	-3.	0.	0.	0.	5.	0.	0.	-390.0	390.0	0.00
790	374.	0.	-370.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-12.	-1.	0.	0.	-3.	0.	0.	0.	5.	0.	0.	-385.4	385.4	0.00
791	370.	0.	-365.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-1.	0.	0.	-3.	0.	0.	0.	5.	0.	0.	-380.9	380.9	0.00
792	365.	0.	-361.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-1.	0.	0.	-3.	0.	0.	0.	4.	0.	0.	-376.3	376.3	0.00
793	361.	0.	-356.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-1.	0.	0.	-3.	0.	0.	0.	4.	0.	0.	-371.7	371.7	0.00
794	356.	0.	-351.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-1.	0.	0.	-3.	0.	0.	0.	4.	0.	0.	-367.1	367.1	0.00
795	351.	0.	-347.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-1.	0.	0.	-3.	0.	0.	0.	4.	0.	0.	-362.4	362.4	0.00
796	347.	0.	-342.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-12.	-1.	0.	0.	-3.	0.	0.	0.	4.	0.	0.	-357.8	357.8	0.00
797	342.	0.	-337.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-12.	-1.	0.	0.	-3.	0.	0.	0.	4.	0.	0.	-353.2	353.2	0.00
798	337.	0.	-332.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-12.	-1.	0.	0.	-3.	0.	0.	0.	4.	0.	0.	-348.5	348.5	0.00
799	332.	0.	-328.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-1.	0.	0.	-3.	0.	0.	0.	4.	0.	0.	-343.8	343.8	0.00
800	328.	0.	-323.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-1.	0.	0.	-3.	0.	0.	0.	3.	0.	0.	-339.1	339.1	0.00
801	323.	0.	-318.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-1.	0.	0.	-3.	0.	0.	0.	3.	0.	0.	-334.3	334.3	0.00
802	318.	0.	-313.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-1.	0.	0.	-3.	0.	0.	0.	3.	0.	0.	-329.6	329.6	0.00
803	313.	0.	-308.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-13.	-1.	0.	0.	-3.	0.	0.	0.	3.	0.	0.	-324.8	324.8	0.00
804	308.	0.	-304.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-13.	-1.	0.	0.	-3.	0.	0.	0.	3.	0.	0.	-320.1	320.1	0.00
805	304.	0.	-299.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-13.	-1.	0.	0.	-3.	0.	0.	0.	3.	0.	0.	-315.3	315.3	0.00
806	299.	0.	-294.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-13.	-1.	0.	0.	-3.	0.	0.	0.	3.	0.	0.	-310.5	310.5	0.00
807	294.	0.	-289.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-13.	-1.	0.	0.	-3.	0.	0.	0.	3.	0.	0.	-305.7	305.7	0.00
808	289.	0.	-284.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-13.	-1.	0.	0.	-3.	0.	0.	0.	2.	0.	0.	-300.9	300.9	0.00
809	284.	0.	-279.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-13.	-1.	0.	0.	-3.	0.	0.	0.	2.	0.	0.	-296.1	296.1	0.00
810	279.	0.	-275.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-13.	-1.	0.	0.	-3.	0.	0.	0.	2.	0.	0.	-291.3	291.3	0.00
811	275.	0.	-270.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-13.	-1.	0.	0.	-3.	0.	0.	0.	2.	0.	0.	-286.5	286.5	0.00
812	270.	0.	-265.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-13.	-1.	0.	0.	-3.	0.	0.	0.	2.	0.	0.	-281.7	281.7	0.00
813	265.	0.	-260.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-13.	-1.	0.	0.	-3.	0.	0.	0.	2.	0.	0.	-276.8	276.8	0.00

814	260.	0.	-255.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-13.	-1.	0.	0.	-3.	0.	0.	0.	2.	0.	0.	-272.0	272.0	0.00
815	255.	0.	-250.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-13.	-1.	0.	0.	-3.	0.	0.	0.	2.	0.	0.	-267.1	267.1	0.00
816	250.	0.	-245.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-14.	-1.	0.	0.	-3.	0.	0.	0.	1.	0.	0.	-262.3	262.3	0.00
817	245.	0.	-240.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-14.	-1.	0.	0.	-3.	0.	0.	0.	1.	0.	0.	-257.4	257.4	0.00
818	240.	0.	-235.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-14.	-1.	0.	0.	-3.	0.	0.	0.	1.	0.	0.	-252.6	252.6	0.00
819	235.	0.	-231.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-14.	-1.	0.	0.	-3.	0.	0.	0.	1.	0.	0.	-247.7	247.7	0.00
820	231.	0.	-226.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-14.	-1.	0.	0.	-3.	0.	0.	0.	1.	0.	0.	-242.9	242.9	0.00
821	226.	0.	-221.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-3.	0.	0.	0.	1.	0.	0.	-238.0	238.0	0.00
822	221.	0.	-216.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-3.	0.	0.	0.	1.	0.	0.	-233.1	233.1	0.00
823	216.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-3.	0.	0.	0.	1.	0.	0.	-228.3	228.3	0.00
824	211.	0.	-206.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-3.	0.	0.	0.	0.	0.	0.	-223.4	223.4	0.00
825	206.	0.	-201.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-3.	0.	0.	0.	0.	0.	0.	-218.5	218.5	0.00
826	201.	0.	-196.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-3.	0.	0.	0.	0.	0.	0.	-213.7	213.7	0.00
827	196.	0.	-191.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-14.	-1.	0.	0.	-3.	0.	0.	0.	0.	0.	0.	-208.8	208.8	0.00

DISSOLVED OXYGEN LOADING FOR REACH 5: Bayou Plaquemine

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WSLD OUT	WITH DECA	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
828	191.	0.	-186.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-14.	-1.	0.	0.	-3.	0.	0.	0.	0.	0.	0.	-203.9	203.9	0.00

DISSOLVED OXYGEN LOADING FOR REACH 6: Upper Grand River #1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
879	1123.	0.	-1077.	0.	0.	0.	0.	0.	0.	0.	0.	35.	-78.	-1.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-1184.2	1184.2	0.00
880	1077.	0.	-1033.	0.	0.	0.	0.	0.	0.	0.	0.	36.	-77.	-1.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-1139.0	1139.0	0.00
881	1033.	0.	-991.	0.	0.	0.	0.	0.	0.	0.	0.	37.	-75.	-1.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-1096.0	1096.0	0.00
882	991.	0.	-951.	0.	0.	0.	0.	0.	0.	0.	0.	38.	-74.	-1.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-1055.1	1055.1	0.00
883	951.	0.	-914.	0.	0.	0.	0.	0.	0.	0.	0.	38.	-73.	-1.	0.	0.	-29.	0.	0.	0.	27.	0.	0.	-1016.3	1016.3	0.00
884	914.	0.	-878.	0.	0.	0.	0.	0.	0.	0.	0.	39.	-72.	-1.	0.	0.	-29.	0.	0.	0.	27.	0.	0.	-979.5	979.5	0.00
885	878.	0.	-844.	0.	0.	0.	0.	0.	0.	0.	0.	40.	-71.	-1.	0.	0.	-29.	0.	0.	0.	27.	0.	0.	-944.6	944.6	0.00
886	844.	0.	-812.	0.	0.	0.	0.	0.	0.	0.	0.	41.	-70.	-1.	0.	0.	-29.	0.	0.	0.	27.	0.	0.	-911.7	911.7	0.00
887	812.	0.	-782.	0.	0.	0.	0.	0.	0.	0.	0.	42.	-69.	-1.	0.	0.	-29.	0.	0.	0.	27.	0.	0.	-880.5	880.5	0.00
888	782.	0.	-754.	0.	0.	0.	0.	0.	0.	0.	0.	42.	-68.	-1.	0.	0.	-29.	0.	0.	0.	27.	0.	0.	-851.2	851.2	0.00
889	754.	0.	-727.	0.	0.	0.	0.	0.	0.	0.	0.	43.	-67.	-1.	0.	0.	-29.	0.	0.	0.	27.	0.	0.	-823.5	823.5	0.00
890	727.	0.	-702.	0.	0.	0.	0.	0.	0.	0.	0.	44.	-66.	-1.	0.	0.	-29.	0.	0.	0.	27.	0.	0.	-797.5	797.5	0.00
891	702.	0.	-679.	0.	0.	0.	0.	0.	0.	0.	0.	44.	-65.	-1.	0.	0.	-29.	0.	0.	0.	27.	0.	0.	-773.1	773.1	0.00
892	679.	0.	-660.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-62.	-1.	0.	0.	-28.	0.	0.	0.	27.	0.	0.	-750.5	750.5	0.00
893	660.	0.	-644.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-60.	0.	0.	0.	-27.	0.	0.	0.	27.	0.	0.	-731.9	731.9	0.00
894	644.	0.	-632.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-58.	0.	0.	0.	-27.	0.	0.	0.	27.	0.	0.	-716.6	716.6	0.00
895	632.	0.	-621.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-56.	0.	0.	0.	-26.	0.	0.	0.	27.	0.	0.	-704.2	704.2	0.00
896	621.	0.	-613.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-55.	0.	0.	0.	-26.	0.	0.	0.	27.	0.	0.	-694.2	694.2	0.00
897	613.	0.	-607.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-53.	0.	0.	0.	-26.	0.	0.	0.	27.	0.	0.	-686.2	686.2	0.00
898	607.	0.	-602.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-52.	0.	0.	0.	-25.	0.	0.	0.	27.	0.	0.	-680.0	680.0	0.00
899	602.	0.	-598.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-51.	0.	0.	0.	-25.	0.	0.	0.	27.	0.	0.	-675.2	675.2	0.00
900	598.	0.	-596.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-50.	0.	0.	0.	-25.	0.	0.	0.	27.	0.	0.	-671.7	671.7	0.00
901	596.	0.	-594.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-50.	0.	0.	0.	-25.	0.	0.	0.	27.	0.	0.	-669.3	669.3	0.00
902	594.	0.	-593.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-49.	0.	0.	0.	-25.	0.	0.	0.	27.	0.	0.	-667.8	667.8	0.00
903	593.	0.	-593.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-48.	0.	0.	0.	-25.	0.	0.	0.	27.	0.	0.	-667.1	667.1	0.00
904	593.	0.	-594.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-48.	0.	0.	0.	-25.	0.	0.	0.	28.	0.	0.	-667.1	667.1	0.00
905	594.	0.	-595.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-47.	0.	0.	0.	-25.	0.	0.	0.	28.	0.	0.	-667.6	667.6	0.00
906	595.	0.	-596.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-47.	0.	0.	0.	-25.	0.	0.	0.	28.	0.	0.	-668.7	668.7	0.00
907	596.	0.	-1048.	0.	0.	0.	0.	0.	0.	460.	0.	45.	-52.	-1.	0.	0.	-29.	0.	0.	0.	28.	0.	0.	-1129.2	1129.2	0.00
908	1048.	0.	-1040.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-51.	-1.	0.	0.	-29.	0.	0.	0.	28.	0.	0.	-1120.6	1120.6	0.00
909	1040.	0.	-1033.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-51.	-1.	0.	0.	-29.	0.	0.	0.	28.	0.	0.	-1112.9	1112.9	0.00
910	1033.	0.	-1026.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-50.	-1.	0.	0.	-29.	0.	0.	0.	28.	0.	0.	-1106.0	1106.0	0.00
911	1026.	0.	-1021.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-50.	-1.	0.	0.	-29.	0.	0.	0.	28.	0.	0.	-1099.9	1099.9	0.00
912	1021.	0.	-1016.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-49.	-1.	0.	0.	-29.	0.	0.	0.	28.	0.	0.	-1094.5	1094.5	0.00
913	1016.	0.	-1012.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-48.	-1.	0.	0.	-29.	0.	0.	0.	28.	0.	0.	-1089.8	1089.8	0.00
914	1012.	0.	-1009.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-48.	-1.	0.	0.	-29.	0.	0.	0.	28.	0.	0.	-1085.9	1085.9	0.00
915	1009.	0.	-1006.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-47.	-1.	0.	0.	-28.	0.	0.	0.	28.	0.	0.	-1082.6	1082.6	0.00
916	1006.	0.	-1004.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-47.	-1.	0.	0.	-28.	0.	0.	0.	28.	0.	0.	-1080.1	1080.1	0.00
917	1004.	0.	-1003.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-46.	-1.	0.	0.	-28.	0.	0.	0.	28.	0.	0.	-1078.1	1078.1	0.00
918	1003.	0.	-1002.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-46.	-1.	0.	0.	-28.	0.	0.	0.	28.	0.	0.	-1076.8	1076.8	0.00
919	1002.	0.	-1002.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-45.	-1.	0.	0.	-28.	0.	0.	0.	28.	0.	0.	-1076.1	1076.1	0.00
920	1002.	0.	-1002.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-45.	-1.	0.	0.	-28.	0.	0.	0.	28.	0.	0.	-1075.9	1075.9	0.00
921	1002.	0.	-1003.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-44.	-1.	0.	0.	-28.	0.	0.	0.	28.	0.	0.	-1076.4	1076.4	0.00
922	1003.	0.	-1005.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-43.	-1.	0.	0.	-28.	0.	0.	0.	28.	0.	0.	-1077.4	1077.4	0.00
923	1005.	0.	-1007.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-43.	-1.	0.	0.	-28.	0.	0.	0.	28.	0.	0.	-1078.9	1078.9	0.00

924	1007.	0.	-1009.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-42.	-1.	0.	0.	-28.	0.	0.	0.	28.	0.	0.	-1080.9	1080.9	0.00
925	1009.	0.	-1012.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-42.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1083.4	1083.4	0.00
926	1012.	0.	-1016.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-42.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1086.4	1086.4	0.00
927	1016.	0.	-1020.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-41.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1089.9	1089.9	0.00
928	1020.	0.	-1024.	0.	0.	0.	0.	0.	0.	0.	0.	46.	-41.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1093.8	1093.8	0.00
929	1024.	0.	-1029.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-40.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1098.2	1098.2	0.00
930	1029.	0.	-1034.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-40.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1102.9	1102.9	0.00
931	1034.	0.	-1040.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-39.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1108.1	1108.1	0.00
932	1040.	0.	-1046.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-39.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1113.7	1113.7	0.00
933	1046.	0.	-1052.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-38.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1119.6	1119.6	0.00
934	1052.	0.	-1059.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-38.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1125.9	1125.9	0.00
935	1059.	0.	-1066.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-37.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1132.6	1132.6	0.00
936	1066.	0.	-1073.	0.	0.	0.	0.	0.	0.	0.	0.	45.	-37.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1139.6	1139.6	0.00
937	1073.	0.	-1081.	0.	0.	0.	0.	0.	0.	0.	0.	44.	-36.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1146.9	1146.9	0.00

DISSOLVED OXYGEN LOADING FOR REACH 6: Upper Grand River #1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
938	1081.	0.	-1089.	0.	0.	0.	0.	0.	0.	0.	44.	-36.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1154.5	1154.5	0.00
939	1089.	0.	-1098.	0.	0.	0.	0.	0.	0.	0.	44.	-36.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1162.5	1162.5	0.00
940	1098.	0.	-1106.	0.	0.	0.	0.	0.	0.	0.	44.	-35.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1170.7	1170.7	0.00
941	1106.	0.	-1115.	0.	0.	0.	0.	0.	0.	0.	44.	-35.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1179.2	1179.2	0.00
942	1115.	0.	-1124.	0.	0.	0.	0.	0.	0.	0.	43.	-34.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1188.0	1188.0	0.00
943	1124.	0.	-1134.	0.	0.	0.	0.	0.	0.	0.	43.	-34.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1197.0	1197.0	0.00
944	1134.	0.	-1144.	0.	0.	0.	0.	0.	0.	0.	43.	-34.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1206.3	1206.3	0.00
945	1144.	0.	-1154.	0.	0.	0.	0.	0.	0.	0.	43.	-33.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1215.8	1215.8	0.00
946	1154.	0.	-1164.	0.	0.	0.	0.	0.	0.	0.	43.	-33.	-1.	0.	0.	-28.	0.	0.	0.	29.	0.	0.	-1225.6	1225.6	0.00
947	1164.	0.	-1174.	0.	0.	0.	0.	0.	0.	0.	42.	-32.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1235.6	1235.6	0.00
948	1174.	0.	-1185.	0.	0.	0.	0.	0.	0.	0.	42.	-32.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1245.8	1245.8	0.00
949	1185.	0.	-1195.	0.	0.	0.	0.	0.	0.	0.	42.	-32.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1256.2	1256.2	0.00
950	1195.	0.	-1206.	0.	0.	0.	0.	0.	0.	0.	42.	-31.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1266.8	1266.8	0.00
951	1206.	0.	-1218.	0.	0.	0.	0.	0.	0.	0.	41.	-31.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1277.6	1277.6	0.00
952	1218.	0.	-1229.	0.	0.	0.	0.	0.	0.	0.	41.	-31.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1288.5	1288.5	0.00
953	1229.	0.	-1240.	0.	0.	0.	0.	0.	0.	0.	41.	-30.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1299.6	1299.6	0.00
954	1240.	0.	-1252.	0.	0.	0.	0.	0.	0.	0.	41.	-30.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1310.9	1310.9	0.00
955	1252.	0.	-1264.	0.	0.	0.	0.	0.	0.	0.	41.	-30.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1322.4	1322.4	0.00
956	1264.	0.	-1276.	0.	0.	0.	0.	0.	0.	0.	40.	-29.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1334.0	1334.0	0.00
957	1276.	0.	-1288.	0.	0.	0.	0.	0.	0.	0.	40.	-29.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1345.7	1345.7	0.00
958	1288.	0.	-1300.	0.	0.	0.	0.	0.	0.	0.	40.	-29.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1357.6	1357.6	0.00
959	1300.	0.	-1312.	0.	0.	0.	0.	0.	0.	0.	39.	-28.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1369.6	1369.6	0.00
960	1312.	0.	-1325.	0.	0.	0.	0.	0.	0.	0.	39.	-28.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1381.7	1381.7	0.00
961	1325.	0.	-1337.	0.	0.	0.	0.	0.	0.	0.	39.	-28.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1393.9	1393.9	0.00
962	1337.	0.	-1350.	0.	0.	0.	0.	0.	0.	0.	39.	-27.	-1.	0.	0.	-28.	0.	0.	0.	30.	0.	0.	-1406.3	1406.3	0.00
1007	1350.	659.	-2021.	0.	0.	0.	0.	0.	0.	0.	31.	-23.	-1.	0.	0.	-20.	0.	0.	0.	25.	0.	0.	-2064.4	2064.4	0.00
1008	2021.	0.	-2032.	0.	0.	0.	0.	0.	0.	0.	31.	-23.	-1.	0.	0.	-20.	0.	0.	0.	24.	0.	0.	-2075.3	2075.3	0.00
1009	2032.	0.	-2042.	0.	0.	0.	0.	0.	0.	0.	31.	-23.	-1.	0.	0.	-20.	0.	0.	0.	23.	0.	0.	-2085.7	2085.7	0.00
1010	2042.	0.	-2052.	0.	0.	0.	0.	0.	0.	0.	31.	-23.	-1.	0.	0.	-19.	0.	0.	0.	23.	0.	0.	-2095.5	2095.5	0.00
1011	2052.	0.	-2062.	0.	0.	0.	0.	0.	0.	0.	30.	-23.	-1.	0.	0.	-19.	0.	0.	0.	22.	0.	0.	-2104.7	2104.7	0.00
1012	2062.	0.	-2071.	0.	0.	0.	0.	0.	0.	0.	30.	-22.	-1.	0.	0.	-19.	0.	0.	0.	21.	0.	0.	-2113.3	2113.3	0.00
1013	2071.	0.	-2079.	0.	0.	0.	0.	0.	0.	0.	30.	-22.	-1.	0.	0.	-19.	0.	0.	0.	21.	0.	0.	-2121.4	2121.4	0.00
1014	2079.	0.	-2087.	0.	0.	0.	0.	0.	0.	0.	30.	-22.	-1.	0.	0.	-19.	0.	0.	0.	20.	0.	0.	-2129.0	2129.0	0.00
1015	2087.	0.	-2094.	0.	0.	0.	0.	0.	0.	0.	30.	-22.	-1.	0.	0.	-19.	0.	0.	0.	19.	0.	0.	-2136.0	2136.0	0.00
1016	2094.	0.	-2100.	0.	0.	0.	0.	0.	0.	0.	30.	-22.	-1.	0.	0.	-19.	0.	0.	0.	19.	0.	0.	-2142.5	2142.5	0.00
1017	2100.	0.	-2107.	0.	0.	0.	0.	0.	0.	0.	30.	-22.	-1.	0.	0.	-19.	0.	0.	0.	18.	0.	0.	-2148.4	2148.4	0.00
1018	2107.	0.	-2112.	0.	0.	0.	0.	0.	0.	0.	30.	-21.	-1.	0.	0.	-19.	0.	0.	0.	17.	0.	0.	-2153.8	2153.8	0.00
1019	2112.	0.	-2117.	0.	0.	0.	0.	0.	0.	0.	30.	-21.	-1.	0.	0.	-19.	0.	0.	0.	17.	0.	0.	-2158.8	2158.8	0.00
1020	2117.	0.	-2122.	0.	0.	0.	0.	0.	0.	0.	30.	-21.	-1.	0.	0.	-19.	0.	0.	0.	16.	0.	0.	-2163.2	2163.2	0.00
1021	2122.	0.	-2126.	0.	0.	0.	0.	0.	0.	0.	30.	-21.	-1.	0.	0.	-19.	0.	0.	0.	16.	0.	0.	-2167.1	2167.1	0.00
1022	2126.	0.	-2130.	0.	0.	0.	0.	0.	0.	0.	30.	-21.	-1.	0.	0.	-19.	0.	0.	0.	15.	0.	0.	-2170.5	2170.5	0.00
1023	2130.	0.	-2133.	0.	0.	0.	0.	0.	0.	0.	30.	-21.	-1.	0.	0.	-19.	0.	0.	0.	14.	0.	0.	-2173.4	2173.4	0.00
1024	2133.	0.	-2135.	0.	0.	0.	0.	0.	0.	0.	30.	-20.	-1.	0.	0.	-19.	0.	0.	0.	14.	0.	0.	-2175.9	2175.9	0.00
1025	2135.	0.	-2137.	0.	0.	0.	0.	0.	0.	0.	30.	-20.	-1.	0.	0.	-19.	0.	0.	0.	13.	0.	0.	-2177.8	2177.8	0.00
1026	2137.	0.	-2139.	0.	0.	0.	0.	0.	0.	0.	30.	-20.	-1.	0.	0.	-19.	0.	0.	0.	12.	0.	0.	-2179.3	2179.3	0.00

1027	2139.	0.	-2140.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-20.	-1.	0.	0.	-19.	0.	0.	0.	12.	0.	0.	-2180.3	2180.3	0.00
1028	2140.	0.	-2141.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-20.	-1.	0.	0.	-19.	0.	0.	0.	11.	0.	0.	-2180.9	2180.9	0.00
1029	2141.	0.	-2141.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-20.	-1.	0.	0.	-19.	0.	0.	0.	10.	0.	0.	-2181.0	2181.0	0.00
1030	2141.	0.	-2141.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-20.	-1.	0.	0.	-19.	0.	0.	0.	10.	0.	0.	-2180.7	2180.7	0.00
1031	2141.	0.	-2140.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-19.	-1.	0.	0.	-19.	0.	0.	0.	9.	0.	0.	-2179.9	2179.9	0.00
1032	2140.	0.	-2139.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-19.	-1.	0.	0.	-19.	0.	0.	0.	9.	0.	0.	-2178.7	2178.7	0.00
1033	2139.	0.	-2138.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-19.	-1.	0.	0.	-19.	0.	0.	0.	8.	0.	0.	-2177.1	2177.1	0.00
1034	2138.	0.	-2136.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-19.	-1.	0.	0.	-19.	0.	0.	0.	7.	0.	0.	-2175.0	2175.0	0.00
1035	2136.	0.	-2134.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-19.	-1.	0.	0.	-19.	0.	0.	0.	7.	0.	0.	-2172.5	2172.5	0.00
1036	2134.	0.	-2131.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-19.	-1.	0.	0.	-19.	0.	0.	0.	6.	0.	0.	-2169.6	2169.6	0.00
1037	2131.	0.	-2128.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-19.	-1.	0.	0.	-19.	0.	0.	0.	6.	0.	0.	-2166.3	2166.3	0.00
1038	2128.	0.	-2124.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-18.	-1.	0.	0.	-19.	0.	0.	0.	5.	0.	0.	-2162.5	2162.5	0.00
1039	2124.	0.	-2120.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-18.	-1.	0.	0.	-19.	0.	0.	0.	4.	0.	0.	-2158.4	2158.4	0.00
1040	2120.	0.	-2116.	0.	0.	0.	0.	0.	0.	0.	0.	30.	-18.	-1.	0.	0.	-19.	0.	0.	0.	4.	0.	0.	-2153.9	2153.9	0.00

DISSOLVED OXYGEN LOADING FOR REACH 6: Upper Grand River #1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
1041	2116.	0.	-2111.	0.	0.	0.	0.	0.	0.	0.	30.	-18.	-1.	0.	0.	-19.	0.	0.	0.	3.	0.	0.	-2149.0	2149.0	0.00
1042	2111.	0.	-2106.	0.	0.	0.	0.	0.	0.	0.	30.	-18.	-1.	0.	0.	-19.	0.	0.	0.	2.	0.	0.	-2143.7	2143.7	0.00
1043	2106.	0.	-2100.	0.	0.	0.	0.	0.	0.	0.	30.	-18.	-1.	0.	0.	-19.	0.	0.	0.	2.	0.	0.	-2138.0	2138.0	0.00
1044	2100.	0.	-2095.	0.	0.	0.	0.	0.	0.	0.	30.	-18.	-1.	0.	0.	-19.	0.	0.	0.	1.	0.	0.	-2131.9	2131.9	0.00
1045	2095.	0.	-2088.	0.	0.	0.	0.	0.	0.	0.	30.	-18.	-1.	0.	0.	-19.	0.	0.	0.	1.	0.	0.	-2125.5	2125.5	0.00
1046	2088.	0.	-2082.	0.	0.	0.	0.	0.	0.	0.	30.	-17.	-1.	0.	0.	-19.	0.	0.	0.	0.	0.	0.	-2118.7	2118.7	0.00

DISSOLVED OXYGEN LOADING FOR REACH 7: Lower Flat River

IOR	UPMN ADV	UPTR ADV	ADV	LOWR DISP	UPMN DISP	UPTR DISP	LOWR IN	OUT	INCR IN	IN	NONP OUT	IN	WSLD DECA	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
963	936.	0.	-905.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-29.	0.	0.	0.	-16.	0.	0.	0.	0.	0.	0.	-951.1	951.1	0.00		
964	905.	0.	-876.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-29.	0.	0.	0.	-16.	0.	0.	0.	1.	0.	0.	-921.6	921.6	0.00		
965	876.	0.	-849.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-29.	0.	0.	0.	-16.	0.	0.	0.	1.	0.	0.	-894.0	894.0	0.00		
966	849.	0.	-824.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-28.	0.	0.	0.	-16.	0.	0.	0.	1.	0.	0.	-868.2	868.2	0.00		
967	824.	0.	-800.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-28.	0.	0.	0.	-16.	0.	0.	0.	2.	0.	0.	-844.0	844.0	0.00		
968	800.	0.	-778.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-27.	0.	0.	0.	-16.	0.	0.	0.	2.	0.	0.	-821.5	821.5	0.00		
969	778.	0.	-757.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-27.	0.	0.	0.	-16.	0.	0.	0.	3.	0.	0.	-800.5	800.5	0.00		
970	757.	0.	-738.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-27.	0.	0.	0.	-16.	0.	0.	0.	3.	0.	0.	-781.0	781.0	0.00		
971	738.	0.	-720.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-26.	0.	0.	0.	-16.	0.	0.	0.	3.	0.	0.	-762.9	762.9	0.00		
972	720.	0.	-704.	0.	0.	0.	0.	0.	0.	0.	0.	22.	-26.	0.	0.	0.	-16.	0.	0.	0.	4.	0.	0.	-746.2	746.2	0.00		
973	704.	0.	-689.	0.	0.	0.	0.	0.	0.	0.	0.	23.	-26.	0.	0.	0.	-16.	0.	0.	0.	4.	0.	0.	-730.8	730.8	0.00		
974	689.	0.	-675.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-25.	0.	0.	0.	-16.	0.	0.	0.	4.	0.	0.	-716.6	716.6	0.00		
975	675.	0.	-662.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-25.	0.	0.	0.	-16.	0.	0.	0.	5.	0.	0.	-703.7	703.7	0.00		
976	662.	0.	-651.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-24.	0.	0.	0.	-16.	0.	0.	0.	5.	0.	0.	-691.9	691.9	0.00		
977	651.	0.	-641.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-24.	0.	0.	0.	-16.	0.	0.	0.	5.	0.	0.	-681.2	681.2	0.00		
978	641.	0.	-631.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-24.	0.	0.	0.	-16.	0.	0.	0.	6.	0.	0.	-671.6	671.6	0.00		
979	631.	0.	-623.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-23.	0.	0.	0.	-16.	0.	0.	0.	6.	0.	0.	-663.0	663.0	0.00		
980	623.	0.	-616.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-23.	0.	0.	0.	-16.	0.	0.	0.	6.	0.	0.	-655.3	655.3	0.00		
981	616.	0.	-609.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-23.	0.	0.	0.	-16.	0.	0.	0.	7.	0.	0.	-648.6	648.6	0.00		
982	609.	0.	-604.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-22.	0.	0.	0.	-16.	0.	0.	0.	7.	0.	0.	-642.8	642.8	0.00		
983	604.	0.	-599.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-22.	0.	0.	0.	-16.	0.	0.	0.	8.	0.	0.	-637.9	637.9	0.00		
984	599.	0.	-595.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-22.	0.	0.	0.	-16.	0.	0.	0.	8.	0.	0.	-633.7	633.7	0.00		
985	595.	0.	-592.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-22.	0.	0.	0.	-16.	0.	0.	0.	8.	0.	0.	-630.4	630.4	0.00		
986	592.	0.	-590.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-21.	0.	0.	0.	-16.	0.	0.	0.	9.	0.	0.	-627.8	627.8	0.00		
987	590.	0.	-588.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-21.	0.	0.	0.	-16.	0.	0.	0.	9.	0.	0.	-625.9	625.9	0.00		
988	588.	0.	-587.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-21.	0.	0.	0.	-16.	0.	0.	0.	9.	0.	0.	-624.7	624.7	0.00		
989	587.	0.	-587.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-20.	0.	0.	0.	-16.	0.	0.	0.	10.	0.	0.	-624.2	624.2	0.00		
990	587.	0.	-588.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-20.	0.	0.	0.	-16.	0.	0.	0.	10.	0.	0.	-624.3	624.3	0.00		
991	588.	0.	-589.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-20.	0.	0.	0.	-16.	0.	0.	0.	10.	0.	0.	-625.0	625.0	0.00		
992	589.	0.	-590.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-19.	0.	0.	0.	-16.	0.	0.	0.	11.	0.	0.	-626.2	626.2	0.00		
993	590.	0.	-592.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-19.	0.	0.	0.	-16.	0.	0.	0.	11.	0.	0.	-628.0	628.0	0.00		
994	592.	0.	-595.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-19.	0.	0.	0.	-16.	0.	0.	0.	12.	0.	0.	-630.4	630.4	0.00		
995	595.	0.	-598.	0.	0.	0.	0.	0.	0.	0.	0.	27.	-19.	0.	0.	0.	-16.	0.	0.	0.	12.	0.	0.	-633.2	633.2	0.00		
996	598.	0.	-601.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-18.	0.	0.	0.	-16.	0.	0.	0.	12.	0.	0.	-636.6	636.6	0.00		
997	601.	0.	-605.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-18.	0.	0.	0.	-16.	0.	0.	0.	13.	0.	0.	-640.3	640.3	0.00		
998	605.	0.	-610.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-18.	0.	0.	0.	-16.	0.	0.	0.	13.	0.	0.	-644.5	644.5	0.00		
999	610.	0.	-615.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-18.	0.	0.	0.	-16.	0.	0.	0.	13.	0.	0.	-649.2	649.2	0.00		
1000	615.	0.	-620.	0.	0.	0.	0.	0.	0.	0.	0.	26.	-17.	0.	0.	0.	-16.	0.	0.	0.	14.	0.	0.	-654.2	654.2	0.00		
1001	620.	0.	-626.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-17.	0.	0.	0.	-16.	0.	0.	0.	14.	0.	0.	-659.6	659.6	0.00		
1002	626.	0.	-632.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-17.	0.	0.	0.	-16.	0.	0.	0.	15.	0.	0.	-665.4	665.4	0.00		
1003	632.	0.	-638.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-17.	0.	0.	0.	-16.	0.	0.	0.	15.	0.	0.	-671.5	671.5	0.00		
1004	638.	0.	-645.	0.	0.	0.	0.	0.	0.	0.	0.	25.	-16.	0.	0.	0.	-16.	0.	0.	0.	15.	0.	0.	-678.0	678.0	0.00		
1005	645.	0.	-652.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-16.	0.	0.	0.	-16.	0.	0.	0.	16.	0.	0.	-684.7	684.7	0.00		
1006	652.	0.	-659.	0.	0.	0.	0.	0.	0.	0.	0.	24.	-16.	0.	0.	0.	-16.	0.	0.	0.	16.	0.	0.	-691.8	691.8	0.00		

LA-QUAL Model for Upper Terrebonne
Calibration Simulation for Upper Terrebonne model

INPUT/OUTPUT LOADING SUMMARY

	FLOW m≥/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS	CHL A	NCM
HEADWATER FLOW	14.371	7182.1	9462.2	0.0	1565.5	36.2	1769.4	0.0	0.0	0.0
INCREMENTAL INFLOW	0.780	273.6	1103.7	0.0	122.8	0.0	16.3	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	3.074	930.2	1940.8	0.0	326.1	83.2	78.3	0.0	0.0	0.0
WITHDRAWLS	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-18.226	-4851.9	-3742.6	0.0	-2612.3	-157.4	-1895.6	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DISPERSION THRU HDWTR BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	7420.0	0.0	1050.0			0.0		
NATURAL REAERATION		18077.4								
DAM REAERATION		0.0								
BACKGROUND SOD		-11283.5								
BOD#1 DECAY		-16184.1	-16184.1							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY				0.0						
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY					0.0					
ORG-N DECAY		0.0			-452.0	452.0				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-1792.9				-414.1	414.1			
BACKGROUND NH3 SOURCE							0.0			
OTHER DENITRIFICATION								0.0		
PHOSPHORUS SOURCE									0.0	
ALGAE PHOTOSYNTHESIS			7648.9				0.0	-382.4	0.0	0.0
ALGAE RESPIRATION			0.0			0.0		0.0	0.0	
ALGAE SETTLING			0.0						0.0	
MACRO PHOTOSYNTHESIS				0.0			0.0	0.0	0.0	
NCM DECAY			0.0						0.0	
NCM SETTLING			0.0							0.0
TOTAL INPUTS	18.226	34112.2	19926.6	0.0	3064.3	571.4	2278.1	0.0	0.0	0.0
TOTAL OUTPUTS	-18.226	-34112.3	-19926.7	0.0	-3064.3	-571.4	-2278.1	0.0	0.0	0.0
NET CONVERGENCE ERROR		0.000	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0

.....EXECUTION COMPLETED