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

(120202, 120204, 120304, 120403, 120604)

Prepared for:

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

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

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

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

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

Tables ES-2 and ES-3 present summaries 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-4 presents a summary of the reduction percentages for LAs for oxygen demand. There were no reductions to nutrients. Reduction percentages for total oxygen demand ranged from 9 to 27 percent. There were no reductions for WLAs, which are presented in tables ES-5 through 14.

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

Subsegment	Oxygen demand (lb/d)				
120202	SOD	CBOD	Ammonia	Organic N	Total
WLA	746	1,684	160	203	2,794
MOS for WLA	93	211	20	25	349
FG for WLA	93	211	20	25	349
LA	7,763	2,614	0	2,113	12,490
MOS for LA	970	327	21	21	1,338
FG for LA	970	327	21	21	1,338
TMDL	10,636	5,373	242	2,408	18,659

Table ES-2. (continued)

Subsegment	Oxygen demand (lb/d)				
120204	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	4,854	18,662	153	2,263	25,932
MOS for WLA	607	2,333	19	283	3,241
FG for WLA	607	2,333	19	283	3,241
LA	361,928	1,386,974	0	168,720	1,917,622
MOS for LA	45,241	173,372	811	811	220,234
FG for LA	45,241	173,372	811	811	220,234
TMDL	458,477	1,757,046	1,812	173,169	2,390,504
Subsegment	**Oxygen demand (lb/d)**				
120304	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	1,601	5,592	92	1,617	8,902
MOS for WLA	200	699	11	202	1,113
FG for WLA	200	699	11	202	1,113
LA	27,118	94,557	0	27,390	149,065
MOS for LA	3,390	11,820	194	194	15,598
FG for LA	3,390	11,820	194	194	15,598
TMDL	35,900	125,186	504	29,800	191,390
Subsegment	**Oxygen demand (lb/d)**				
120403	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	641	1,927	56	1,078	3,702
MOS for WLA	80	241	7	135	463
FG for WLA	80	241	7	135	463
LA	111,269	330,580	9,649	187,164	638,662
MOS for LA	13,909	41,323	1,206	23,396	79,833
FG for LA	13,909	41,323	1,206	23,396	79,833
TMDL	139,888	415,634	12,130	235,303	802,955
Subsegment	**Oxygen demand (lb/d)**				
120604	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0	12	0	0	12
MOS for WLA	0	2	0	0	2
FG for WLA	0	2	0	0	2
LA	873	1,760	47	530	3,210
MOS for LA	109	220	6	66	401
FG for LA	109	220	6	66	401
TMDL	1,091	2,216	59	662	4,028

Table ES-3. Summary of TMDLs for nutrients in the middle Terrebonne Basin

Subsegment	∑ WLA	∑ LA	MOS	FG (10%)	Total allowable loading
Total phosphorus					
120202	344.75	0.57	Implicit	38.37	383.69
120204	27.69	0.69	Implicit	3.15	31.53
120304	1.56	0.02	Implicit	0.18	1.76
Total nitrogen					
120202	1,132.91	3.51	Implicit	126.27	1,262.69
120204	91.02	4.21	Implicit	10.58	105.80
120304	5.12	0.14	Implicit	0.59	5.85

Table ES-4. Summary of reduction percentages for LAs in the middle Terrebonne Basin

Subsegment	Percent reduction				
	SOD	CBOD	Ammonia	Organic N	Total
120202	0.00	55.62	0.00	9.00	21.59
120204	0.00	11.54	0.00	4.83	8.96
120304	0.00	34.58	9.98	20.15	27.47
120403	0.00	26.89	0.00	8.30	17.82
120604	0.00	31.22	80.72	18.62	25.84

Table ES-5. WLAs for BOD for subsegment 120202 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LA0032948	001	Thibodaux, City of-WWTP	4	30	1001.45
LA0042510	002	Lafourche Sugars LLC FKA A Corp	1.5	10	125.18
LA0066486	001	Tesi-Magnolia Park Service	0.22	10	18.36
LA0074331	101	La Compressor MTCE Co Inc	0.000282	45	0.11
LA0081809	001	Tesi-Plantation/Leighton	0.12	10	10.01
LA0086975	002	Hydraulic Well Control, Inc.	0.001	45	0.38
LA0086975	003	Hydraulic Well Control, Inc.	0.001	45	0.38
LA0095257	001	Service Sanitary Corporation	0.1307	10	10.91
LA0100064	002	Hill City Oil Co Inc	0.005	45	1.88
LA0100064	003	Hill City Oil Co Inc	0.025	30	6.26
LA0100064	004	Hill City Oil Co Inc	0.025	45	9.39
LA0111236	001	Daneco Inc	0.2	25	41.73
LA0112330	002	Buckner Generator & Armature Srv	0.005	45	1.88
LAG480103	003	Lig Liquids Company LLC	0.00144	45	0.54
LAG480103	004	Lig Liquids Company LLC	0.00144	45	0.54
LAG480134	001	Tetra Technologies Inc.	0.005	45	1.88
LAG480272	002	Smith Int'l Inc.	0.00015	45	0.06
LAG480317	002	WFS-Liquids Co	0.0015	45	0.56
LAG480563	001	Marine Systems, Inc.	0.0017	45	0.64
LAG530057	001	BCL Partnership	0.005	45	1.88
LAG530072	001	Bellsouth Telecommunications	0.005	45	1.88
LAG530268	001	J.B. Levert Land Company	0.005	45	1.88
LAG530887	001	Sita Inc	0.005	45	1.88
LAG531154	001	Terrebonne Parish Recreation	0.005	45	1.88
LAG531233	001	Williams Field Services Co	0.0025	45	0.94
LAG531388	001	Williams Field Svcs Co	0.005	45	1.88
LAG531451	001	Earl Cato Apartments	0.0008	45	0.30
LAG531469	001	Kiva Construction &	0.005	45	1.88
LAG531620	001	Circle K #664	0.0009	45	0.34
LAG531981	001	Enviro-Lab Inc.	0.0002	45	0.08
LAG532058	001	Terrebonne Parish Communications District	0.0015	45	0.56
LAG540525	001	Mr. Nam Van Tran	0.005	45	1.88
LAG540726	001	Terrebonne Ph Schoo-Gibson Ele	0.0013	30	0.33
LAG540737	001	Tesi-Midway Sub	0.059923	30	15.00
LAG540846	001	C&J Mobile Home Estates	0.025	30	6.26
LAG540934	001	McDonald Oxidation Svc Inc	0.00144	30	0.36
LAG541104	001	McDonald & Robichaux, Inc.	0.00831	30	2.08

Table ES-5. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG541158	001	L&B Enterprises of Assumption,	0.00126	30	0.32
LAG541223	001	Amg Land & Cattle Co - Mobile Home Park	0.025	30	6.26
LAG541317	001	Mandalay Manor Trailer Park	0.015	30	3.76
LAG560080	001	Harvest Cathedral Ministries	0.02782	20	4.64
LAG560135	001	Terrebonne Par Consolidated Govt	0.02496025	20	4.17
LAG560174	001	Bayou Winds Mobile Home Village	0.03	20	5.01
LAG560175	001	Total Environmental Solutions	0.04625	20	7.72
LAG560197	001	Terrebonne Par Cons-Gibson Jar	0.03	20	5.01
LAG560224	001	Tesi-Country Hollow	0.584	20	97.47
LAG570035	001	Lafourche Ph Sewer Dist #4	0.078	10	6.51
LAG570091	001	Tesi-Rigolet's Utilities	0.0504	10	4.21
LAG570155	001	Lakes of Terrebonne LLC The	0.0548	10	4.57
LAG570198	001	Total Environmental Solutions Inc	0.0384	20	6.41
LAG750372	002	Hill City Oil Company Inc.	0.005	45	1.88
WG010090	001	J.B. Levert Land Company	0.005	45	1.88

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

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH3 (mg/l)	NH3 (lb/d)
LA0111236	001	Daneco Inc	0.2	20	33.38

Table ES-7. WLAs for nutrients for subsegment 120202 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0032948	001	Thibodaux, City of-WWTP	4	767.78	233.67
LA0066486	001	Tesi-Magnolia Park Service	0.22	42.23	12.85
LA0074331	101	La Compressor MTCE Co Inc	0.000282	0.05	0.02
LA0081809	001	Tesi-Plantation/Leighton	0.12	23.03	7.01
LA0086975	002	Hydraulic Well Control, Inc.	0.001	0.19	0.06
LA0086975	003	Hydraulic Well Control, Inc.	0.001	0.19	0.06
LA0095257	001	Service Sanitary Corporation	0.1307	25.09	7.64
LA0100064	002	Hill City Oil Co Inc	0.005	0.96	0.29
LA0100064	003	Hill City Oil Co Inc	0.025	4.80	1.46
LA0100064	004	Hill City Oil Co Inc	0.025	4.80	1.46
LA0111236	001	Daneco Inc	0.2	38.39	11.68
LA0112330	002	Buckner Generator & Armature Srv	0.005	0.96	0.29
LAG480103	003	Lig Liquids Company LLC	0.00144	0.28	0.08
LAG480103	004	Lig Liquids Company LLC	0.00144	0.28	0.08
LAG480134	001	Tetra Technologies Inc.	0.005	0.96	0.29
LAG480272	002	Smith Int'l Inc.	0.00015	0.03	0.01
LAG480317	002	WFS-Liquids Co	0.0015	0.29	0.09
LAG480563	001	Marine Systems, Inc.	0.0017	0.33	0.10
LAG530057	001	BCL Partnership	0.005	0.96	0.29
LAG541317	001	Mandalay Manor Trailer Park	0.015	30	3.76
LAG560080	001	Harvest Cathedral Ministries	0.02782	20	4.64

Table ES-7. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LAG560135	001	Terrebonne Par Consolidated Govt	0.02496025	20	4.17
LAG560174	001	Bayou Winds Mobile Home Village	0.03	20	5.01
LAG560175	001	Total Environmental Solutions	0.04625	20	7.72
LAG560197	001	Terrebonne Par Cons-Gibson Jar	0.03	20	5.01
LAG560224	001	Tesi-Country Hollow	0.584	20	97.47
LAG570035	001	Lafourche Ph Sewer Dist #4	0.078	10	6.51
LAG570091	001	Tesi-Rigolet's Utilities	0.0504	10	4.21
LAG570155	001	Lakes of Terrebonne LLC	0.0548	10	4.57
LAG570198	001	Total Environmental Solutions Inc	0.0384	20	6.41
LAG750372	002	Hill City Oil Company Inc.	0.005	45	1.88
WG010090	001	J.B. Levert Land Company	0.005	45	1.88
LAG541317	001	Mandalay Manor Trailer Park	0.015	2.88	0.88
LAG560080	001	Harvest Cathedral Ministries	0.02782	5.34	1.63
LAG560135	001	Terrebonne Par Consolidated Govt	0.02496025	4.79	1.46
LAG560174	001	Bayou Winds Mobile Home Village	0.03	5.76	1.75
LAG560175	001	Total Environmental Solutions	0.04625	8.88	2.70
LAG560197	001	Terrebonne Par Cons-Gibson Jar	0.03	5.76	1.75
LAG560224	001	Tesi-Country Hollow	0.584	112.10	34.12
LAG570035	001	Lafourche Ph Sewer Dist #4	0.078	14.97	4.56
LAG570091	001	Tesi-Rigolet's Utilities	0.0504	9.67	2.94
LAG570155	001	Lakes of Terrebonne LLC	0.0548	10.52	3.20
LAG570198	001	Total Environmental Solutions Inc	0.0384	7.37	2.24
LAG750372	002	Hill City Oil Company Inc.	0.005	0.96	0.29
WG010090	001	J.B. Levert Land Company	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-8. WLAs for BOD for subsegment 120204 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LA0043966	001	Village of Napoleonville	0.3	10	25.04
LA0118818	005.	Cimarex Energy Company-Pierre Pass Field	0.00155	45	0.58
LAG530071	001	Bellsouth Pierre Port-Switching Station	0.00002	45	0.01
LAG531350	001	Pierre Part Store, Inc.	0.00166	45	0.62
LAG531365	001	LADOTD-Pierre Part Bridge	0.00002	45	0.01
LAG531584	001	Assumption Parish Police Jury	0.004	45	1.50
LAG532091	001	Vince's Bar-B-Que	0.001235	45	0.46
LAG540112	001	Tesi-Seraphim Estates	0.0156	30	3.91
LAG540140	001	Assumption Ph Police Violet Str	0.02	30	5.01
LAG540154	001	Aucoin's Sewer Util-Kingston's	0.018	30	4.51
LAG540155	001	Aucoin's Sewer Util-Labadie ES	0.0176	30	4.41
LAG541048	001	Heritage Manor of Napoleonville	0.0202	30	5.06
LAG560026	001	Aucoin's Sewer Util-Bayou Tran	0.044	20	7.34
LAG570240	001	Assumption Parish Police	0.03	10	2.50

Table ES-9. WLAs for ammonia for subsegment 120204 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH3 (mg/l)	NH3 (lb/d)
LA0043966	001	Village of Napoleonville	0.3	6.08	15.22

Table ES-10. WLAs for nutrients for subsegment 120204 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0043966	001	Village of Napoleonville	0.3	57.58	17.53
LA0118818	005.	Cimarex Energy Company-Pierre Pass Field	0.00155	0.30	0.09
LAG530071	001	Bellsouth Pierre Port-Switching Station	0.00002	0.00	0.00
LAG531350	001	Pierre Part Store, Inc.	0.00166	0.32	0.10
LAG531365	001	LADOTD-Pierre Part Bridge	0.00002	0.00	0.00
LAG531584	001	Assumption Parish Police Jury	0.004	0.77	0.23
LAG532091	001	Vince's Bar-B-Que	0.001235	0.24	0.07
LAG540112	001	Tesi-Seraphim Estates	0.0156	2.99	0.91
LAG540140	001	Assumption Ph Police Violet Str	0.02	3.84	1.17
LAG540154	001	Aucoin's Sewer Util-Kingston's	0.018	3.45	1.05
LAG540155	001	Aucoin's Sewer Util-Labadie ES	0.0176	3.38	1.03
LAG541048	001	Heritage Manor of Napoleonvill	0.0202	3.88	1.18
LAG560026	001	Aucoin's Sewer Util-Bayou Tran	0.044	8.45	2.57
LAG570240	001	Assumption Parish Police	0.03	5.76	1.75

[a] Total nitrogen and total phosphorus have assumed concentrations of 23 mg/L and 7 mg/L respectively.

Table ES-11. WLAs for BOD for subsegment 120304 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LA0076775	001	Baker Atlas	0.0002	45	0.08
LA0084077	001	Bollinger Larose LLC	0.0005	45	0.19
LA0084077	002	Bollinger Larose LLC	0.0005	45	0.19
LA0084077	004	Bollinger Larose LLC	0.005	45	1.88
LA0089648	008	Bourg Dry Dock & Service Company	0.0005	45	0.19
LA0089648	009	Bourg Dry Dock & Service Company	0.0005	45	0.19
LA0089648	010	Bourg Dry Dock & Service Company	0.0005	45	0.19
LA0096253	001	Bourg Dry Dock & Service Company	0.0002	45	0.08
LA0097195	001	Bourg Dry Dock & Service Company	0.00025	45	0.09
LA0104868	001	Main Iron Works LLC	0.0003	45	0.11
LA0104868	002A	Main Iron Works LLC	0.00045	45	0.17
LA0104868	002B	Main Iron Works LLC	0.00045	45	0.17
LA0104868	003	Main Iron Works LLC	0.00045	45	0.17
LA0110299	001	PFG Caro	0.01	30	2.50
LA0111376	101	Southern Scrap Recycling	0.0005	45	0.19
LA0112267	002	Neff Rental Inc	0.00035	45	0.13
LA0112267	003	Neff Rental Inc	0.00035	45	0.13
LA0118702	001	Allied Shipyard Inc-Larose Facility	0.0002	45	0.08
LA0118702	002	Allied Shipyard Inc-Larose Facility	0.0002	45	0.08
LAG110090	002	Huey Stockstill Inc-Houma Asphalt Plant Sn 31888	0.005	45	1.88
LAG480216	101	Southern Scrap Recycling-Morgan City LLC	0.0005	45	0.19

Table ES-12. WLAs for nutrients for subsegment 120304 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0076775	001	Baker Atlas	0.0002	0.04	0.01
LA0084077	001	Bollinger Larose LLC	0.0005	0.10	0.03
LA0084077	002	Bollinger Larose LLC	0.0005	0.10	0.03
LA0084077	004	Bollinger Larose LLC	0.005	0.96	0.29
LA0089648	008	Bourg Dry Dock & Service Company	0.0005	0.10	0.03
LA0089648	009	Bourg Dry Dock & Service Company	0.0005	0.10	0.03
LA0089648	010	Bourg Dry Dock & Service Company	0.0005	0.10	0.03
LA0096253	001	Bourg Dry Dock & Service Company	0.0002	0.04	0.01
LA0104868	001	Main Iron Works LLC	0.0003	0.06	0.02
LA0104868	002A	Main Iron Works LLC	0.00045	0.09	0.03
LA0104868	002B	Main Iron Works LLC	0.00045	0.09	0.03
LA0104868	003	Main Iron Works LLC	0.00045	0.09	0.03
LA0110299	001	PFG Caro	0.01	1.92	0.58
LA0111376	101	Southern Scrap Recycling	0.0005	0.10	0.03
LA0112267	002	Neff Rental Inc	0.00035	0.07	0.02
LA0112267	003	Neff Rental Inc	0.00035	0.07	0.02
LA0118702	001	Allied Shipyard Inc-Larose Facility	0.0002	0.04	0.01
LA0118702	002	Allied Shipyard Inc-Larose Facility	0.0002	0.04	0.01
LAG110090	002	Huey Stockstill Inc-Houma Asphalt Plant Sn 31888	0.005	0.96	0.29
LAG480216	101	Southern Scrap Recycling-Morgan City LLC	0.0005	0.10	0.03

[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 BOD for subsegment 120403 in the middle Terrebonne Basin

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

Table ES-14. WLAs for BOD for subsegment 120604 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG530324	001	Lafourche Telephone Co	0.005	45	1.88
LAG531463	001	Big Bayou Blue Marina	0.0025	45	0.94
LAG531463	002	Big Bayou Blue Marina	0.0025	45	0.94
LAG531493	001	Lebouef Trailer Park	0.005	45	1.88

Table ES-14. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG532034	001	Chiasson Welding Service	0.001	45	0.38
LAG540624	001	Rousse Land Development-Bon Service Shopping Center	0.025	30	6.26

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

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

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1 INTRODUCTION

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

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

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

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

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

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

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

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

2 BACKGROUND INFORMATION

2.1 General Description

The study region consisted of five subsegments in the middle portion of the Terrebonne Basin: Bayou Black (subsegment 120202); Lake Verret and Grassy Lake (subsegment 120204); Intracoastal Waterway east of Houma (subsegment 120304); Intracoastal Waterway–Bayou Boeuf Locks to Bayou Black in Houma, which includes portions of Bayous Boeuf, Black, Chene, and Cocodrie (subsegment 120403); and Bayou Blue (subsegment 120604). The middle Terrebonne Basin is mainly in Terrebonne Parish; there are smaller portions in Assumption, St. Mary's, and Lafourche Parishes. Table 2-1 lists the parishes and approximate drainage area of each subsegment, and Figure 2-1 shows the locations of the subsegments. The watershed's U.S. Geological Survey (USGS) hydrologic unit code is 08090302.

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

Subsegment name	Subsegment	Parish	Area (mi^2)	Area (km^2)
Bayou Black	120202	Assumption, Lafourche, Terrebonne	133	345
Lake Verret and Grassy Lake	120204	Assumption	149	386
Intracoastal Waterway east of Houma	120304	Lafourche, Terrebonne	5	14
Intracoastal Waterway – Bayou Boeuf Locks	120403	Assumption, St. Mary, Terrebonne	137	355
Bayou Blue	120604	Lafourche, Terrebonne	26	69

2.2 Land Use

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

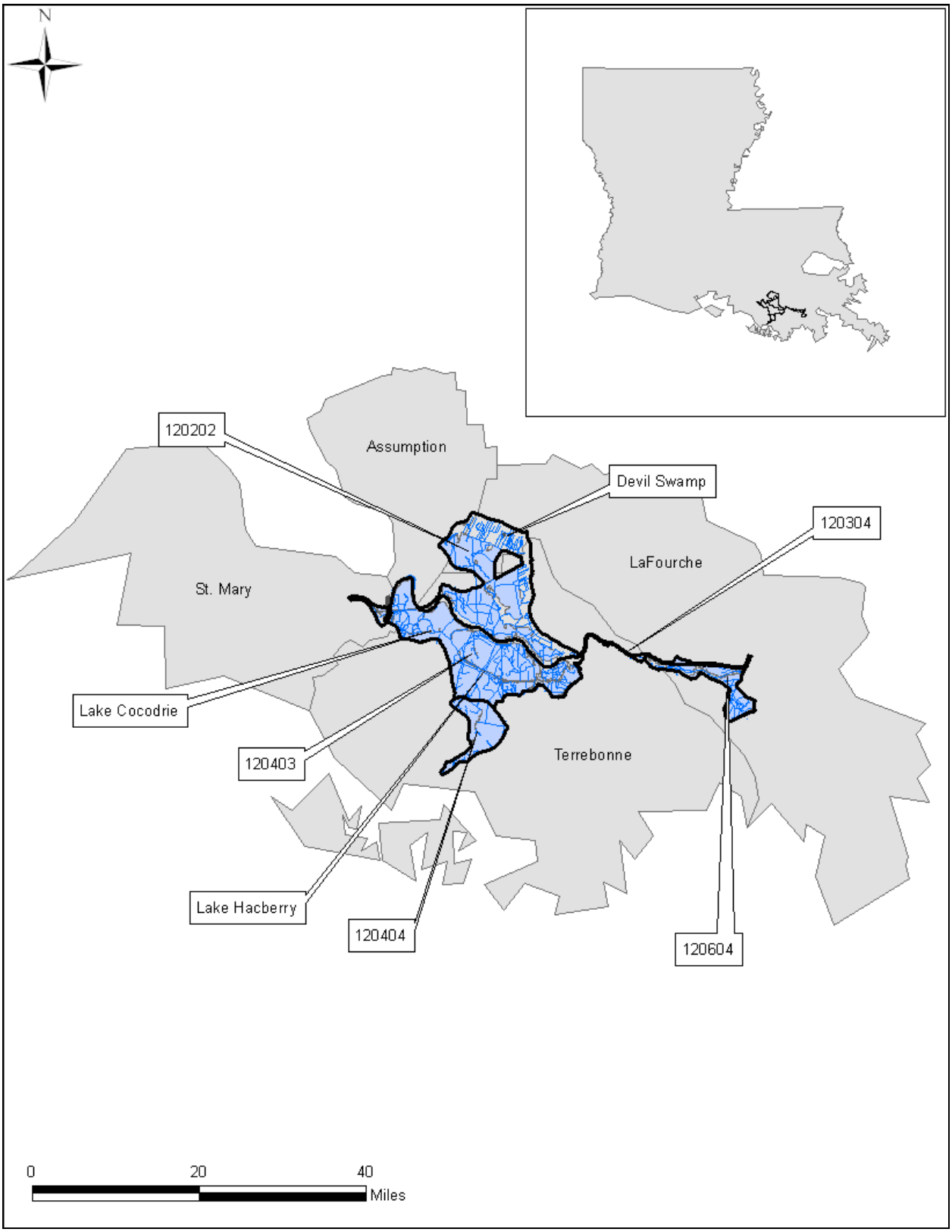

Figure 2-1. Locations of middle Terrebonne Basin subsegments.

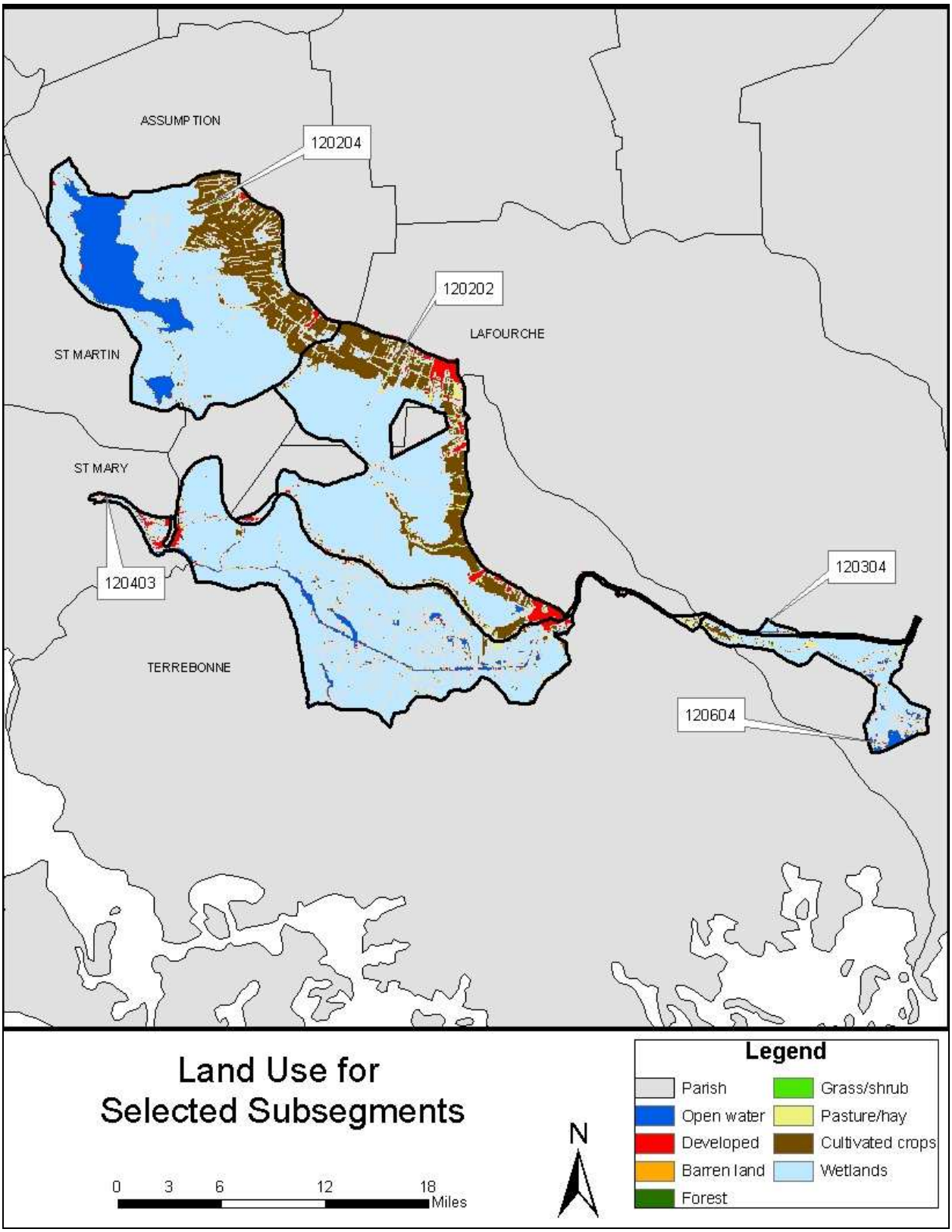

Figure 2-2. Land use in the middle Terrebonne Basin subsegments.

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

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

2.3 Hydrologic Setting

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

2.4 Designated Uses and Water Quality Criteria

Louisiana's 2004 section 303(d) list indicates that the four listed subsegments—all assigned a use of primary or secondary contact recreation, fish and wildlife propagation, outstanding natural resource, or shellfish propagation—do not meet applicable water quality standards because of unknown sources. Primary contact recreation includes any recreational or other water contact involving full-body exposure to water and a considerable probability of ingesting water. Examples of the use are swimming and water skiing. Secondary contact recreation involves activities like fishing, wading, or boating, where water contact is accidental or incidental and there is a minimal chance of ingesting appreciable amounts of water. Fish and wildlife propagation includes the use of water for aquatic habitat, food, resting, reproduction, cover, or travel corridors for any indigenous wildlife and aquatic life species associated with the aquatic environment. Outstanding Natural Resource Waters are waterbodies designated for preservation, protection, reclamation, or enhancement of wilderness, aesthetic qualities, and ecological regimes, such as those designated under the Louisiana Natural and Scenic Rivers System or those designated by the department as waters of ecological significance. Characteristics of outstanding natural resource waters include highly diverse or unique in-stream or riparian habitat, high species diversity, balanced trophic structure, unique species, or similar qualities. Shellfish propagation involves the use of water to maintain biological systems that support

economically important species of shellfish so that their productivity is preserved and the health of human consumers of these species is protected.

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

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

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

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

2.5 Identification of Sources

2.5.1 Point Sources

LDEQ stores permit information using internal databases. LDEQ generated a list of point source discharges in the study area by using the TEMPO and PTS databases. Information on point source discharges to the listed subsegments was obtained from the Electronic Document Management System (EDMS) database at LDEQ. Data were pulled from EDMS and analyzed for the TMDLs. Each facility was evaluated on the basis of its discharges and permit limits to determine whether the facility would be used in developing the TMDLs. The evaluation yielded 48 permitted point source discharges in subsegment 120202, 15 in subsegment 120204, 12 in subsegment 120304, 5 in subsegment 120403, and 5 in subsegment 120604. Because of the large number of permits, they are listed in Appendix A.

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

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

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

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

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

Table 2-3. MS4 information for the Terrebonne Basin

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

2.5.2 Nonpoint Sources

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

3 CHARACTERIZATION OF EXISTING WATER QUALITY

3.1 Water Quality Data

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

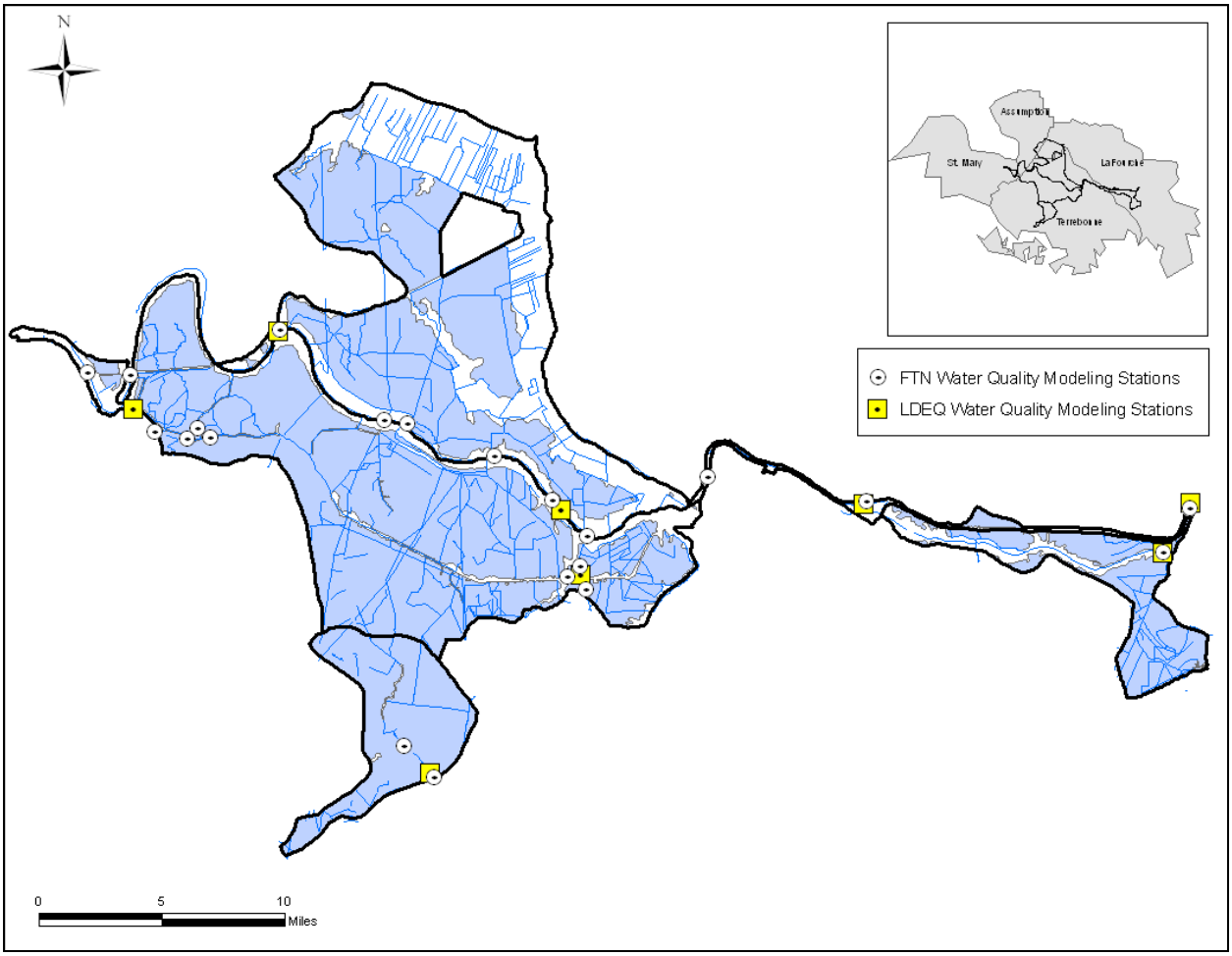

Figure 3-1. Locations of monitoring stations in the middle Terrebonne Basin.

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

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

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

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

Note: DO = dissolved oxygen

Table 3-2. Data types from July 2006 monitoring

Subsegment	Site ID	Site name	Data types collected
120202	114	Bayou Black at Gibson, LA	In situ, sample, cross section, flow, contin.
120202	120202-A	Terrebonne-Lafourche Drainage Canal near Greenwood, LA	In situ, sample, flow
120202	120202-B	Bayou Black near Oak Forest, LA	In situ, cross section
120202	120202-C	Bayou Black near Humphreys, LA	In situ, cross section
120202	339	Bayou Black west of Houma, LA	In situ, sample, flow, cross section
120204	120204-A	Bayou Pierre Part near Pierre Part, LA	In situ, sample, flow
120204	145	Lake Verret near Pierre Part, LA	In situ, sample, depth
120204	120204-B	Lake Verret west of Station 145	In situ, depth
120204	120204-C	Lake Verret east of Station 145	In situ, depth
120204	120204-D	Godchaux Canal near Lake Verret	In situ, sample, flow, cross section
120204	120204-E	Godchaux Canal near Napoleonville	In situ, sample, flow, cross section
120204	144	Lake Verret at Attakapas Landing near Georgia, LA	In situ, depth
120204	120204-F	Lake Verret south of Attakapas Landing	In situ, sample, depth
120204	120204-G	Bayou Magazille	In situ, sample, flow
120204	120204-H	Fourmile Bayou near Lake Verret	In situ, flow, cross section
120204	120204-I	Fourmile Bayou near Grassy Lake	In situ, cross section
120204	120204-J	Grassy Lake northeast of middle	In situ, depth
120204	120204-K	Grassy Lake near middle	In situ, sample, depth
120304	340	Intracoastal Waterway east of Houma, LA	In situ, sample
120304	120304-A	Intracoastal Waterway at Larose, LA	In situ, sample, flow
120403	120403-A	Intracoastal Waterway between Bayou Chene and Bayou Black	In situ, flow, cross section
120403	120403-B	Bayou Black near confluence with GIWW south of Lake Bridge, LA	In situ, flow, cross section
120403	120403-C	Intracoastal Waterway east of confluence with Bayou Black S of Lake Bridge, LA	In situ, cross section
120403	120403-D	Intracoastal Waterway west of Minors Canal	In situ, sample, flow, cross section
120403	120403-E	Minors Canal north of GIWW	In situ, flow, cross section
120403	120403-F	Minors Canal south of GIWW	In situ, flow, cross section
120403	120403-G	Bayou Boeuf at Amelia, LA	In situ, sample
120403	120403-H	Intracoastal Waterway near lock at Morgan City	In situ, sample, cross section
120403	120403-I	Bayou Chene near Intracoastal Waterway	In situ, sample

Table 3-2. (continued)

Subsegment	Site ID	Site name	Data types collected
120403	120403-J	Houma Navigation Canal near Houma	In situ, sample, flow
120604	945	Bayou Blue SSW of Larose, LA	In situ, sample, flow

3.2 Comparison of Observed Data to Criteria

Water quality monitoring data were obtained from LDEQ and during the July 2006 sampling event. Table 3-3 provides a summary of the LDEQ dissolved oxygen data available for stations in the model subsegments. Each station has between 16 and 389 data points. All seven stations had dissolved oxygen observations below the water quality criterion of 5 mg/L.

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

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

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

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

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

4 WATER QUALITY MODEL SETUP AND CALIBRATION

4.1 Model Setup

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

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

Three models were used for the middle Terrebonne Basin: Lake Verret (120204), Bayou Blue (120604), and Bayou Black (120202)/Intracoastal Waterways (120304 and 120403). Only the main stems of the systems were explicitly simulated and thus segmented for modeling purposes. Segmentation refers to separating a waterbody into smaller computational units. Segmentation occurred around major hydrological features, such as tributaries. Tributaries were represented through boundary condition designation. Appendix 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). For the Bayou Black/Intracoastal Waterway and Bayou Blue models, the maximum iteration limit was changed from the default 100 to 500; the wind speed was changed from the default of 0 to 1.3; and the algae oxygen production was changed from the default of 0.05 to 0.026.

4.5 Temperature Correction of Kinetics (Data Type 4)

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

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

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

4.6 Hydraulics 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 were made in some reaches to better simulate observed hydrology and water quality.

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

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

4.7 Initial Conditions (Data Type 11)

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

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

4.8 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 for the stream portions of the model. This equation is applicable to moderately deep to deep channels (1 ft to 30 ft with flow between 0.5 ft/s and 12.2 ft/d). The equation is

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

where:

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

For the portion of the model that simulates Lake Verret, a different method was used. This equation is

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

where:

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

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

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

where:

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

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

Table 4-2. Water quality kinetics rates

Program constant	120202/1200304/ 120403	120204	120604
Background SOD ($g/m^2/d$)	0.7–2.2	0.7–3	0.5
BOD #1 decay rate (aerobic) (1/d)	0.15–0.17	0.16–0.23	0.15
Ammonia decay rate (1/d)	0.02	0.02	0.02
Ammonia nitrogen oxidation rate (1/d)	0.13–0.2	0.2	0.13
Oxygen transfer coefficient "*a*" (m/d)	--	0.75	--

4.9 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. Incremental data were not used in the Lake Verret model.

4.10 Nonpoint Source Loads (Data Type 19)

This data type accounts for nonpoint source loads not associated with incremental and tributary flows. CBOD and organic nitrogen loadings were based on observed water quality. SOD, from data type 12, could be considered a nonpoint source load from sediment entering the waterbody system.

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 13 direct permitted dischargers, plus 28 permitted dischargers that were combined because of lack of discharge pathway information and their proximity to assumed pathways. Eleven tributaries were also included as input in these data types and 8 outflows to other waterbodies. The input file that lists inputs and their associated flows and concentrations are provided in Table 4-3. Data from tributaries were developed from observed data. Dissolved oxygen was set to 5.0 for point sources. Permitted BOD 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

Sub-segment	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
120202	LA0074331	0.0002	5	45	1.4	1.5	2	Point source
120202	LA0111236	0.1292	5	25	1.4	20	2	Point source
120202	LAG531469	0.0032	5	45	1.4	1.5	2	Point source
120202	LAG540726	0.0008	5	30	1.4	1.5	2	Point source
120202	LAG541223	0.0162	5	30	1.4	1.5	2	Point source
120202	LAG541317	0.0097	5	30	1.4	1.5	2	Point source
120202	Little Bayou Black	29.7	2.3	9.42	1.63	0.14	0	Tributary
120202	Minors Canal	12	10.4	7.16	1.4	0.1	0	Tributary
120202	PS Bayou Black#1	0.0341	5	24.73	1.4	1.5	2	Combined point sources
120202	PS Bayou Black#2	0.0439	5	22.9	1.4	1.5	2	Combined point sources
120202	PS Bayou Black#3	0.0042	5	45	1.4	1.5	2	Combined point sources
120202	PS Hanson Canal	0.0365	5	11.02	1.4	1.5	2	Combined point sources
120202	PS Lil Bayou Black	0.009	5	45	1.63	1.5	2	Combined point sources
120204	Bayou Magazille	687.016	7.6	16.8	2.4	0.1	0.2	Tributary
120204	LAG540112	0.01	5	30	2	1.5	2	Point source
120204	LAG560026	0.028	5	20	2	1.5	2	Point source
120204	NPDES Group1	0.036	5	30	2	1.5	2	Combined point sources
120204	NPDES Group2	0.211	5	11.8	2	5.7	2	Combined point sources
120204	NPDES Group3	0.002	5	45	2	1.5	2	Combined point sources
120204	Outflow to FB Oxbow	-200.855	6.8	25.5	1.7	0.1	0	Flow to another waterbody
120304	Bayou Bleu North	27.8	3.34	8.74	0.9	0.1	0	Tributary
120304	Bayou Bleu South	-9						Flow to another waterbody
120304	Bayou Terrebonne E.	-22						Flow to another waterbody
120304	Bayou Terrebonne W.	32.3	2.3	9.42	1.63	0.14	0	Tributary
120304	Company Canal North	95	3.89	9.83	1.34	0.1	0	Tributary
120304	Company Canal South	-12.3						Flow to another waterbody
120304	LA0089648	0.0785	5	30.8	1.4	1.5	2	Point source
120304	LA0104868	0.0011	5	45	1.4	1.5	2	Point source
120304	LA0111376	0.0003	5	45	1.4	1.5	2	Point source

Table 4-3. (continued)

Sub-segment	Point source/ tributary name	Flow (mgd)	DO (mg/L)	CBOD (mg/L)	Org N (mg/L)	Ammonia (mg/L)	NO3+NO2 (mg/L)	Comment
120304	PS ICWW#2	0.0009	5	45	1.4	1.5	2	Combined point sources
120304	St Louis Canal	10.3	3.34	8.74	0.9	0.1	0	Tributary
120403	Bayou Boeuff	1,093.40	4.4	5	1.6	0.1	0	Tributary
120403	Bayou Chene	-832.5						Flow to another waterbody
120403	Copasaw Canal	349	6.6	6.17	1.4	0.1	0	Tributary
120403	Houma Nav. Can.	-543.5						Flow to another waterbody
120403	Minors Canal North	-12						Flow to another waterbody
120403	Minors Canal South	102.1	10.4	7.16	1.4	0.1	0	Tributary
120403	PS ICWW#1	0.0006	5	45	1.4	1.5	2	Combined point sources
120403	Unnamed Canal	35.5	6.6	6.17	1.4	0.1	0	Tributary
120604	ICWW	-9.04711						Flow to another waterbody
120604	LA0084077	0.003877	5	45	1.4	1.5	0	Point source
120604	LAG531463	0.003231	5	45	1.4	1.5	0	Point source

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
120202	10,636	9,861	407	3,182	22,113
120204	458,477	1,986,216	8,297	224,572	2,677,404
120304	35,900	191,338	2,287	45,408	274,922
120403	69,944	284,252	6,065	128,305	488,538
120604	1,091	3,214	307	814	5,411

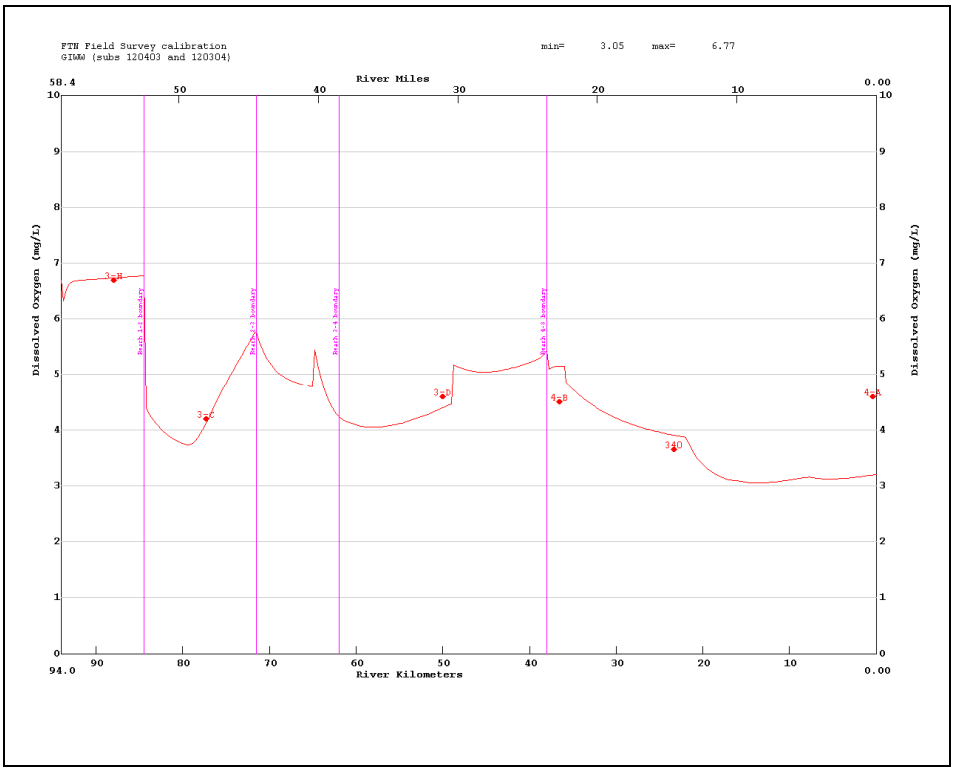

Figure 4-1. Calibration plot for dissolved oxygen in subsegments 120304 and 120403.

5 WATER QUALITY MODEL PROJECTION

EPA's regulations at 40 CFR 130.7 require 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

Because of the limited amount of data available, the measured temperature used in calibration was used as the critical condition in the summer months. The measured temperatures were slightly higher than 30 ºC for segments. Using water temperature slightly higher than the suggested 30 ºC results in conservative TMDLs. Because this subsegment has 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, oxygen demand must be reduced between 9 and 27 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 for

projected growth in the TMDL area (or to account for sources not otherwise accounted for in the TMDL).

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

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

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

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

6.1 Dissolved Oxygen TMDLs

The dissolved oxygen TMDLs are presented as oxygen demand from CBOD, ammonia nitrogen, and SOD, and they were derived using the LA-QUAL model. A summary of the TMDLs is presented in Table 6-1. The TMDLs were calculated from SOD, CBOD, ammonia, and organic nitrogen from nonpoint source model inputs, tributary flows, incremental flows, and background. Table 6-2 presents a summary of the reduction percentages for LAs; there were no reductions for WLAs. The reduction percentages for total oxygen demand ranged from 9 to 27 percent.

WLAs were calculated using monthly average permit limits, when applicable. If a permit did not have a monthly average permit limit, the weekly average permit limit was used. If the facility had neither a monthly nor a weekly limit, the daily maximum limit was used to calculate loads. Table 6-3 lists the individual WLAs for the MS4s identified in Section 2.5. The WLAs are presented in Tables 6-4 through 6-10.

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

Subsegment	Oxygen demand (lb/d)				
120202	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	746	1,684	160	203	2,794
MOS for WLA	93	211	20	25	349
FG for WLA	93	211	20	25	349
LA	7,763	2,614	0	2,113	12,490
MOS for LA	970	327	21	21	1,338
FG for LA	970	327	21	21	1,338
TMDL	10,636	5,373	242	2,408	18,659
Subsegment	**Oxygen demand (lb/d)**				
120204	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	4,854	18,662	153	2,263	25,932
MOS for WLA	607	2,333	19	283	3,241
FG for WLA	607	2,333	19	283	3,241
LA	361,928	1,386,974	0	168,720	1,917,622
MOS for LA	45,241	173,372	811	811	220,234
FG for LA	45,241	173,372	811	811	220,234
TMDL	458,477	1,757,046	1,812	173,169	2,390,504
Subsegment	**Oxygen demand (lb/d)**				
120304	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	1,601	5,592	92	1,617	8,902
MOS for WLA	200	699	11	202	1,113
FG for WLA	200	699	11	202	1,113
LA	27,118	94,557	0	27,390	149,065
MOS for LA	3,390	11,820	194	194	15,598
FG for LA	3,390	11,820	194	194	15,598
TMDL	35,900	125,186	504	29,800	191,390
Subsegment	**Oxygen demand (lb/d)**				
120403	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	641	1,927	56	1,078	3,702
MOS for WLA	80	241	7	135	463
FG for WLA	80	241	7	135	463
LA	111,269	330,580	9,649	187,164	638,662
MOS for LA	13,909	41,323	1,206	23,396	79,833
FG for LA	13,909	41,323	1,206	23,396	79,833
TMDL	139,888	415,634	12,130	235,303	802,955
Subsegment	**Oxygen demand (lb/d)**				
120604	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0	12	0	0	12
MOS for WLA	0	2	0	0	2
FG for WLA	0	2	0	0	2
LA	873	1,760	47	530	3,210
MOS for LA	109	220	6	66	401
FG for LA	109	220	6	66	401
TMDL	1,091	2,216	59	662	4,028

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

Subsegment	Percent reduction				
	SOD	CBOD	Ammonia	Organic N	Total
120202	0.00	55.62	0.00	9.00	21.59
120204	0.00	11.54	0.00	4.83	8.96
120304	0.00	34.58	9.98	20.15	27.47
120403	0.00	26.89	0.00	8.30	17.82
120604	0.00	31.22	80.72	18.62	25.84

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

Subsegment	Urban Area	NPDES permit number	MS4 area (acres)	Pollutant	MS4 (lb/d)
120202	Terrebonne Parish	LAR041023	7,461.88	BOD	313.9
120202	Terrebonne Parish	LAR041023	7,461.88	Organic nitrogen	58.6
120202	Terrebonne Parish	LAR041023	7,461.88	Ammonia	4.6
120202	Terrebonne Parish	LAR041023	7,461.88	SOD	932.3
120304	Terrebonne Parish	LAR041023	188.35	BOD	6,978.8
120304	Terrebonne Parish	LAR041023	188.35	Organic nitrogen	466.9
120304	Terrebonne Parish	LAR041023	188.35	Ammonia	26.5
120304	Terrebonne Parish	LAR041023	188.35	SOD	2,001.5
120403	Terrebonne Parish	LAR041023	657.49	BOD	1,559.5
120403	Terrebonne Parish	LAR041023	657.49	Organic nitrogen	203.9
120403	Terrebonne Parish	LAR041023	657.49	Ammonia	10.5
120403	Terrebonne Parish	LAR041023	657.49	SOD	524.9
120403	Morgan City	LAR041028	346.22	BOD	821.2
120403	Morgan City	LAR041028	346.22	Organic nitrogen	107.4
120403	Morgan City	LAR041028	346.22	Ammonia	5.5
120403	Morgan City	LAR041028	346.22	SOD	276.4
120204	Assumption Parish Police Jury	LAR041039	1,261.17	BOD	23,251.7
120204	Assumption Parish Police Jury	LAR041039	1,261.17	Organic nitrogen	653.2
120204	Assumption Parish Police Jury	LAR041039	1,261.17	Ammonia	25.1
120204	Assumption Parish Police Jury	LAR041039	1,261.17	SOD	6,067.5

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

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LA0032948	001	Thibodaux, City of-WWTP	4	30	1001.45
LA0042510	002	Lafourche Sugars LLC FKA A Corp	1.5	10	125.18
LA0066486	001	Tesi-Magnolia Park Service	0.22	10	18.36
LA0074331	101	La Compressor MTCE Co Inc	0.000282	45	0.11
LA0081809	001	Tesi-Plantation/Leighton	0.12	10	10.01
LA0086975	002	Hydraulic Well Control, Inc.	0.001	45	0.38
LA0086975	003	Hydraulic Well Control, Inc.	0.001	45	0.38
LA0095257	001	Service Sanitary Corporation	0.1307	10	10.91
LA0100064	002	Hill City Oil Co Inc	0.005	45	1.88
LA0100064	003	Hill City Oil Co Inc	0.025	30	6.26
LA0100064	004	Hill City Oil Co Inc	0.025	45	9.39
LA0111236	001	Daneco Inc	0.2	25	41.73
LA0112330	002	Buckner Generator & Armature Srv,IN	0.005	45	1.88
LAG480103	003	Lig Liquids Company LLC	0.00144	45	0.54
LAG480103	004	Lig Liquids Company LLC	0.00144	45	0.54
LAG480134	001	Tetra Technologies Inc.	0.005	45	1.88
LAG480272	002	Smith Int'l Inc.	0.00015	45	0.06
LAG480317	002	WFS-Liquids Co	0.0015	45	0.56
LAG480563	001	Marine Systems, Inc.	0.0017	45	0.64
LAG530057	001	BCL Partnership	0.005	45	1.88
LAG530072	001	Bellsouth Telecommunications	0.005	45	1.88
LAG530268	001	J B Levert Land Company	0.005	45	1.88
LAG530887	001	Sita Inc	0.005	45	1.88
LAG531154	001	Terrebonne Parish Recreation	0.005	45	1.88
LAG531233	001	Williams Field Services Co	0.0025	45	0.94
LAG531388	001	Williams Field Svcs Co	0.005	45	1.88
LAG531451	001	Earl Cato Apartments	0.0008	45	0.30
LAG531469	001	Kiva Construction &	0.005	45	1.88
LAG531620	001	Circle K #664	0.0009	45	0.34
LAG531981	001	Enviro-Lab Inc	0.0002	45	0.08
LAG532058	001	Terrebonne Parish Communications District	0.0015	45	0.56
LAG540525	001	Mr. Nam Van Tran	0.005	45	1.88
LAG540726	001	Terrebonne Ph Schoo-Gibson Ele	0.0013	30	0.33
LAG540737	001	Tesi-Midway Sub	0.0599	30	15.00
LAG540846	001	C&J Mobile Home Estates	0.025	30	6.26
LAG540934	001	Mcdonald Oxidation Svc Inc	0.00144	30	0.36
LAG541104	001	Mcdonald & Robichaux, Inc.	0.00831	30	2.08
LAG541158	001	L&B Enterprises of Assumption,	0.00126	30	0.32

Table 6-4. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG541223	001	Amg Land & Cattle Co - Mobile Home Park	0.025	30	6.26
LAG541317	001	Mandalay Manor Trailer Park	0.015	30	3.76
LAG560080	001	Harvest Cathedral Ministries	0.02782	20	4.64
LAG560135	001	Terrebonne Par Consolidated Govt	0.0249	20	4.17
LAG560174	001	Bayou Winds Mobile Home Village	0.03	20	5.01
LAG560175	001	Total Environmental Solutions	0.04625	20	7.72
LAG560197	001	Terrebonne Par Cons-Gibson Jar	0.03	20	5.01
LAG560224	001	Tesi-Country Hollow	0.584	20	97.47
LAG570035	001	Lafourche Ph Sewer Dist #4	0.078	10	6.51
LAG570091	001	Tesi-Rigolet's Utilities	0.0504	10	4.21
LAG570155	001	Lakes of Terrebonne LLC The	0.0548	10	4.57
LAG570198	001	Total Environmental Solutions Inc	0.0384	20	6.41
LAG750372	002	Hill City Oil Company Inc.	0.005	45	1.88
WG010090	001	J B Levert Land Company	0.005	45	1.88

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

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH3 (mg/l)	NH3 (lb/d)
LA0111236	001	Daneco Inc	0.2	20	33.38

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

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LA0043966	001	Village of Napoleonville	0.3	10	25.04
LA0118818	005.	Cimarex Energy Company-Pierre Pass Field	0.00155	45	0.58
LAG530071	001	Bellsouth Pierre Port-Switching Station	0.00002	45	0.01
LAG531350	001	Pierre Part Store, Inc.	0.00166	45	0.62
LAG531365	001	Ladotd-Pierre Part Bridge	0.00002	45	0.01
LAG531584	001	Assumption Parish Police Jury	0.004	45	1.50
LAG532091	001	Vince's Bar-B-Que	0.001235	45	0.46
LAG540112	001	Tesi-Seraphim Estates	0.0156	30	3.91
LAG540140	001	Assumption Ph Police Violet Str	0.02	30	5.01
LAG540154	001	Aucoin's Sewer Util-Kingston's	0.018	30	4.51
LAG540155	001	Aucoin's Sewer Util-Labadie ES	0.0176	30	4.41
LAG541048	001	Heritage Manor of Napoleonvill	0.0202	30	5.06
LAG560026	001	Aucoin's Sewer Util-Bayou Tran	0.044	20	7.34
LAG570240	001	Assumption Parish Police	0.03	10	2.50

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

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH3 (mg/l)	NH3 (lb/d)
LA0043966	001	Village of Napoleonville	0.3	6.08	15.22

Table 6-8. WLAs for BOD for subsegment 120304 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LA0076775	001	Baker Atlas	0.0002	45	0.08
LA0084077	001	Bollinger Larose LLC	0.0005	45	0.19
LA0084077	002	Bollinger Larose LLC	0.0005	45	0.19
LA0084077	004	Bollinger Larose LLC	0.005	45	1.88
LA0089648	008	Bourg Dry Dock & Service Company	0.0005	45	0.19
LA0089648	009	Bourg Dry Dock & Service Company	0.0005	45	0.19
LA0089648	010	Bourg Dry Dock & Service Company	0.0005	45	0.19
LA0096253	001	Bourg Dry Dock & Service Company	0.0002	45	0.08
LA0097195	001	Bourg Dry Dock & Service Company	0.00025	45	0.09
LA0104868	001	Main Iron Works LLC	0.0003	45	0.11
LA0104868	002A	Main Iron Works LLC	0.00045	45	0.17
LA0104868	002B	Main Iron Works LLC	0.00045	45	0.17
LA0104868	003	Main Iron Works LLC	0.00045	45	0.17
LA0110299	001	PFG Caro	0.01	30	2.50
LA0111376	101	Southern Scrap Recycling	0.0005	45	0.19
LA0112267	002	Neff Rental Inc	0.00035	45	0.13
LA0112267	003	Neff Rental Inc	0.00035	45	0.13
LA0118702	001	Allied Shipyard Inc-Larose Facility	0.0002	45	0.08
LA0118702	002	Allied Shipyard Inc-Larose Facility	0.0002	45	0.08
LAG110090	002	Huey Stockstill Inc-Houma Asphalt Plant Sn 31888	0.005	45	1.88
LAG480216	101	Southern Scrap Recycling-Morgan City LLC	0.0005	45	0.19

Table 6-9. WLAs for BOD for subsegment 120403 in the middle Terrebonne Basin

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

Table 6-10. WLAs for BOD for subsegment 120604 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD (mg/L)	BOD (lb/d)
LAG530324	001	Lafourche Telephone Co	0.005	45	1.88
LAG531463	001	Big Bayou Blue Marina	0.0025	45	0.94
LAG531463	002	Big Bayou Blue Marina	0.0025	45	0.94
LAG531493	001	Lebouef Trailer Park	0.005	45	1.88
LAG532034	001	Chiasson Welding Service	0.001	45	0.38
LAG540624	001	Rousse Land Development-Bon Service Shopping Center	0.025	30	6.26

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

6.1.3 Ammonia Toxicity Analysis

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

	Predicted ammonia (mg/L)		Calculated critical criteria (mg/L)	
Subsegment	Minimum	Maximum	Minimum	Maximum
120202	0.01	0.36	0.58	1.79
120204	0.09	0.12	0.12	1.43
120304	0.08	0.10	1.66	1.66
120403	0.08	0.13	0.47	1.93
120604	0.07	0.09	1.53	1.61

6.2 Nutrient TMDLs

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

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 6-5 presents the average concentrations by monitoring location for the non-impaired subsegments. The minimum, mean, and maximum are presented for total phosphorus and total nitrogen.

Table 6-12. Nutrient concentrations in non-impaired subsegments

Subsegment	Subsegment name	Site ID	Total P (mg/L)	NO_2+NO_3 (mg/L)	TKN (mg/L)	Total N (mg/L)
120205	Lake Palourde	338	0.15	0.16	1.17	1.33
120206	Grand Bayou and Little Grand Bayou	82	0.52	0.37	1.39	1.76
120509	Houma Navigation Canal	343	0.14	0.47	0.79	1.26
120509	Houma Navigation Canal	942	0.15	0.43	0.84	1.27
120601	Bayou Terrebonne	943	0.16	0.27	0.88	1.15
Minimum			0.14	0.16	0.79	1.15
Mean			0.22	0.34	1.01	1.35
Maximum			0.52	0.47	1.39	1.76

The data in Table 6-12 were compared with the observed data for the nutrient-impaired subsegments (Table 6-13). No data are available for station 340 in subsegment 120304. Mean concentrations in the nutrient-listed subsegments are at or below the mean concentrations for the non-impaired subsegments. The nutrient-listed subsegments show a wider variation in the minimum and maximum concentrations. Because the means in the listed subsegments were less than those in the non-listed subsegments, no reduction was necessary.

Table 6-13. Nutrient concentrations in the impaired subsegments in the middle Terrebonne Basin

Subsegment	Subsegment name	Statistic	Total P (mg/L)	NO_2+NO_3 (mg/L)	TKN (mg/L)	Total N (mg/L)
120202	Bayou Black	Minimum	0.01	0.00	0.02	0.02
		Mean	0.17	0.20	0.89	1.05
		Maximum	0.79	1.52	6.90	6.96
120204	Lake Verret and Grassy Lake	Minimum	0.06	0.01	0.18	0.02
		Mean	0.22	0.09	1.36	1.32
		Maximum	0.97	1.70	4.83	4.85

Because of the lack of flow data for the Terrebonne Basin, the monthly water yield (runoff in millimeters) was used to obtain TMDL loadings. The monthly water yields for the Southeast and South-central Climate Divisions were obtained from the Louisiana Office of State Climatology. The monthly water yield was divided by the number of days in the month to obtain runoff intensity (Table 6-14).

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

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

The nutrient TMDLs are presented in Table 6-15. The water yield was used with the mean reference stream concentration to determine the LA portion of the TMDL. Because no 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 6-16 lists the individual WLAs for the MS4s identified in Section 2.5. WLAs are presented in Tables 6-17 through 6-19. 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 6-15. Summary of TMDLs for nutrients in the middle Terrebonne Basin

Subsegment	∑ WLA	∑ LA	MOS	FG (10%)	Total allowable loading
Total phosphorus					
120202	344.75	0.57	Implicit	38.37	383.69
120204	27.69	0.69	Implicit	3.15	31.53
120304	1.56	0.02	Implicit	0.18	1.76
Total nitrogen					
120202	1,132.91	3.51	Implicit	126.27	1,262.69
120204	91.02	4.21	Implicit	10.58	105.80
120304	5.12	0.14	Implicit	0.59	5.85

Table 6-16. Summary of nutrient WLAs for MS4s in the middle Terrebonne Basin

Subsegment	Urban area	NPDES permit number	MS4 area (acres)	Pollutant	MS4 (lb/d)
120202	Terrebonne Parish	LAR041023	7,461.88	Total nitrogen	0.3373
120202	Terrebonne Parish	LAR041023	7,461.88	Total phosphorus	0.0550
120304	Terrebonne Parish	LAR041023	188.35	Total nitrogen	0.0085
120304	Terrebonne Parish	LAR041023	188.35	Total phosphorus	0.0014
120204	Assumption Parish Police Jury	LAR041039	1,261.17	Total nitrogen	0.0564
120204	Assumption Parish Police Jury	LAR041039	1,261.17	Total phosphorus	0.0092

Table 6-17. WLAs for nutrients for subsegment 120202 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0032948	001	Thibodaux, City of-WWTP	4	767.78	233.67
LA0066486	001	Tesi-Magnolia Park Service	0.22	42.23	12.85
LA0074331	101	La Compressor MTCE Co Inc	0.000282	0.05	0.02
LA0081809	001	Tesi-Plantation/Leighton	0.12	23.03	7.01
LA0086975	002	Hydraulic Well Control, Inc.	0.001	0.19	0.06
LA0086975	003	Hydraulic Well Control, Inc.	0.001	0.19	0.06
LA0095257	001	Service Sanitary Corporation	0.1307	25.09	7.64
LA0100064	002	Hill City Oil Co Inc	0.005	0.96	0.29
LA0100064	003	Hill City Oil Co Inc	0.025	4.80	1.46
LA0100064	004	Hill City Oil Co Inc	0.025	4.80	1.46
LA0111236	001	Daneco Inc	0.2	38.39	11.68
LA0112330	002	Buckner Generator & Armature Srv,IN	0.005	0.96	0.29
LAG480103	003	Lig Liquids Company LLC	0.00144	0.28	0.08
LAG480103	004	Lig Liquids Company LLC	0.00144	0.28	0.08
LAG480134	001	Tetra Technologies Inc.	0.005	0.96	0.29
LAG480272	002	Smith Int'l Inc.	0.00015	0.03	0.01
LAG480317	002	WFS-Liquids Co	0.0015	0.29	0.09
LAG480563	001	Marine Systems, Inc.	0.0017	0.33	0.10
LAG530057	001	BCL Partnership	0.005	0.96	0.29
LAG541317	001	Mandalay Manor Trailer Park	0.015	30	3.76
LAG560080	001	Harvest Cathedral Ministries	0.02782	20	4.64
LAG560135	001	Terrebonne Par Consolidated Govt	0.02496025	20	4.17
LAG560174	001	Bayou Winds Mobile Home Village	0.03	20	5.01
LAG560175	001	Total Environmental Solutions	0.04625	20	7.72
LAG560197	001	Terrebonne Par Cons-Gibson Jar	0.03	20	5.01
LAG560224	001	Tesi-Country Hollow	0.584	20	97.47
LAG570035	001	Lafourche Ph Sewer Dist #4	0.078	10	6.51
LAG570091	001	Tesi-Rigolet's Utilities	0.0504	10	4.21
LAG570155	001	Lakes of Terrebonne LLC The	0.0548	10	4.57
LAG570198	001	Total Environmental Solutions Inc	0.0384	20	6.41
LAG750372	002	Hill City Oil Company Inc.	0.005	45	1.88
WG010090	001	J B Levert Land Company	0.005	45	1.88
LAG560080	001	Harvest Cathedral Ministries	0.02782	5.34	1.63
LAG560135	001	Terrebonne Par Consolidated Govt	0.02496025	4.79	1.46
LAG560174	001	Bayou Winds Mobile Home Village	0.03	5.76	1.75
LAG560175	001	Total Environmental Solutions	0.04625	8.88	2.70
LAG560197	001	Terrebonne Par Cons-Gibson Jar	0.03	5.76	1.75
LAG560224	001	Tesi-Country Hollow	0.584	112.10	34.12
LAG570035	001	Lafourche Ph Sewer Dist #4	0.078	14.97	4.56
LAG570091	001	Tesi-Rigolet's Utilities	0.0504	9.67	2.94
LAG570155	001	Lakes of Terrebonne LLC The	0.0548	10.52	3.20
LAG570198	001	Total Environmental Solutions Inc	0.0384	7.37	2.24
LAG750372	002	Hill City Oil Company Inc.	0.005	0.96	0.29
WG010090	001	J B Levert Land Company	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 6-18. WLAs for nutrients for subsegment 120204 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0043966	001	Village of Napoleonville	0.3	57.58	17.53
LA0118818	005.	Cimarex Energy Company-Pierre Pass Field	0.00155	0.30	0.09
LAG530071	001	Bellsouth Pierre Port-Switching Station	0.00002	0.00	0.00
LAG531350	001	Pierre Part Store, Inc.	0.00166	0.32	0.10
LAG531365	001	Ladotd-Pierre Part Bridge	0.00002	0.00	0.00
LAG531584	001	Assumption Parish Police Jury	0.004	0.77	0.23
LAG532091	001	Vince's Bar-B-Que	0.001235	0.24	0.07
LAG540112	001	Tesi-Seraphim Estates	0.0156	2.99	0.91
LAG540140	001	Assumption Ph Police Violet Str	0.02	3.84	1.17
LAG540154	001	Aucoin's Sewer Util-Kingston's	0.018	3.45	1.05
LAG540155	001	Aucoin's Sewer Util-Labadie ES	0.0176	3.38	1.03
LAG541048	001	Heritage Manor of Napoleonvill	0.0202	3.88	1.18
LAG560026	001	Aucoin's Sewer Util-Bayou Tran	0.044	8.45	2.57
LAG570240	001	Assumption Parish Police	0.03	5.76	1.75

[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 120304 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	TN[a] (lb/d)	TP[a] (lb/d)
LA0076775	001	Baker Atlas	0.0002	0.04	0.01
LA0084077	001	Bollinger Larose LLC	0.0005	0.10	0.03
LA0084077	002	Bollinger Larose LLC	0.0005	0.10	0.03
LA0084077	004	Bollinger Larose LLC	0.005	0.96	0.29
LA0089648	008	Bourg Dry Dock & Service Company	0.0005	0.10	0.03
LA0089648	009	Bourg Dry Dock & Service Company	0.0005	0.10	0.03
LA0089648	010	Bourg Dry Dock & Service Company	0.0005	0.10	0.03
LA0096253	001	Bourg Dry Dock & Service Company	0.0002	0.04	0.01
LA0104868	001	Main Iron Works LLC	0.0003	0.06	0.02
LA0104868	002A	Main Iron Works LLC	0.00045	0.09	0.03
LA0104868	002B	Main Iron Works LLC	0.00045	0.09	0.03
LA0104868	003	Main Iron Works LLC	0.00045	0.09	0.03
LA0110299	001	PFG Caro	0.01	1.92	0.58
LA0111376	101	Southern Scrap Recycling	0.0005	0.10	0.03
LA0112267	002	Neff Rental Inc	0.00035	0.07	0.02
LA0112267	003	Neff Rental Inc	0.00035	0.07	0.02
LA0118702	001	Allied Shipyard Inc-Larose Facility	0.0002	0.04	0.01
LA0118702	002	Allied Shipyard Inc-Larose Facility	0.0002	0.04	0.01
LAG110090	002	Huey Stockstill Inc-Houma Asphalt Plant Sn 31888	0.005	0.96	0.29
LAG480216	101	Southern Scrap Recycling-Morgan City LLC	0.0005	0.10	0.03

[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.

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

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

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LA0032948	001	Thibodaux, City of-WWTP	Talbot Rd; Thibodaux	Phillips Canal/ Terrebonne	4 (average)	30 (monthly ave) 45 (weekly ave)
LA0042510	002	Lafourche Sugars, LLC FKA A Corp	141 Leighton Quarters Rd; Thibodaux	Bayou Black	1.5 (average)	10 (monthly ave) 15 (daily max)
LA0066486	001	Tesi-Magnolia Park Service	West Bypass Rd; Thibodaux	Bayou Tregre, Terrebonne Lafourche Drainage Canal	0.22 (average)	10 (monthly ave) 15 (weekly ave)
LA0074331	101	LA Compressor MTCE Co, Inc.	120 Cannon Dr.; Houma	Little Black Bayou	0.000282 (average)	45 (weekly ave)
LA0081809	001	Tesi-Plantation/ Leighton	Leighton St; Thibodaux	Terrebonne/ Lafourche Drain Canal	0.12 (average)	10 (monthly ave) 15 (weekly ave)
LA0086975	002	Hydraulic Well Control, Inc.	116 Venture Blvd; Houma	Intracoastal Waterway (ICWW)	0.001 (average)	45 (weekly ave)
LA0086975	003	Hydraulic Well Control, Inc.	116 Venture Blvd; Houma	local drain-B Black-ICWW	0.001 (average)	45 (weekly ave)
LA0095257	001	Service Sanitary Corporation	1851 Hwy 1; Thibodaux	Terrebonne-Lafourche Drainage Canal	0.1307 (average)	10 (monthly ave) 15 (weekly ave)
LA0100064	002	Hill City Oil Co, Inc.	Hwy 20 & Main Proj Rd; Schriever	Bayou Black	0.005 (permit max)	45 (weekly ave)
LA0100064	003	Hill City Oil Co, Inc.	Hwy 20 & Main Proj Rd; Schriever	Bayou Black	0.025 (permit max)	30 (monthly ave) 45 (weekly ave)
LA0100064	004	Hill City Oil Co, Inc.	Hwy 20 & Main Proj Rd; Schriever	Bayou Black	0.025 (permit max)	45 (daily max)
LA0111236	001	Daneco, Inc.	130 Daneco Ct; Houma	drainage-Hanson Canal-ICWW	0.2 (average) 0.5 (permit max)	25 (monthly ave) 40 (daily max)
LA0112330	002	Buckner Generator & Armature Srv,IN	3061 Little Bayou Black Dr.; Houma	ditch-Little Bayou Black	0.005 (permit max)	45 (weekly ave)
LAG480103	003	Lig Liquids Company, LLC	5609 Bayou Black Rd; Gibson	Bayou Black	0.00144 (average)	45 (weekly ave)
LAG480103	004	Lig Liquids Company, LLC	5609 Bayou Black Rd; Gibson	Bayou Black	0.00144 (average)	45 (weekly ave)
LAG480134	001	Tetra Technologies, Inc.	103 Capital Blvd; Houma	drainage-Little Black Bayou	0.005 (permit max)	45 (weekly ave)
LAG480272	002	Smith Int'l Inc.	222 Venture Blvd; Houma	ditch-Hansen Canal-Bayou Black	0.00015 (average)	45 (weekly ave)

Table A-1. (continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LAG480317	002	WFS-Liquids Co	4711-A Bayou Black Dr; Gibson	Hanson Canal, Bayou Black	0.0015 (average)	45 (weekly ave)
LAG480563	001	Marine Systems, Inc.	116 Capital Blvd; Houma	Bayou Black	0.0017 (average)	45 (weekly ave)
LAG530057	001	BCL Partnership	Hwy 316 & Ida St; Bayou Blue	Bayou Blue	0.005 (permit max)	45 (weekly ave)
LAG530072	001	Bellsouth Telecommunications	1429 Tiger Dr; Thibodaux	Bayou Black	0.005 (permit max)	45 (weekly ave)
LAG530268	001	J B Levert Land Company	Hwy 308; Thibodaux	Bayou Lafourche	0.005 (permit max)	45 (weekly ave)
LAG530887	001	Sita, Inc.	1717 St Mary St; Thibodaux	Bayou Lafourche	0.005 (permit max)	45 (weekly ave)
LAG531154	001	Terrebonne Parish Recreation	5575 Bayou Black Dr; Gibson	Bayou Blue	0.005 (permit max)	45 (weekly ave)
LAG531233	001	Williams Field Services Co	144 Horseshoe Rd; Schriever	Bayou Terrebonne	0.0025 (permit max)	45 (weekly ave)
LAG531388	001	Williams Field Svcs Co	4711 Bayou Black Dr; Gibson	Hanson Canal, Bayou Black	0.005 (permit max)	45 (weekly ave)
LAG531451	001	Earl Cato Apartments	136-138 Brunet St; Schriever	Little Bayou Black	0.0008 (average)	45 (weekly ave)
LAG531469	001	Kiva Construction	186 Zimmer Rd; Gibson	Bayou Black	0.005 (permit max)	45 (weekly ave)
LAG531620	001	Circle K #664	292 W Main St; Thibodaux	Terrebonne Lafourche Drainage Canal	0.0009 (average)	45 (weekly ave)
LAG531981	001	Enviro-Lab, Inc.	5527 Hwy 311; Houma	Little Bayou Black	0.0002 (permit max)	45 (weekly ave)
LAG532058	001	Terrebonne Parish Communications District	112 Capital Blvd; Houma	Hanson Canal, Big Bayou Black	0.0015 (average)	45 (weekly ave)
LAG540525	001	Mr. Nam Van Tran	415 LA Hwy 20; Schriever	ditch-drainage canal-Bayou Black	0.005 (permit max)	45 (weekly ave)
LAG540726	001	Terrebonne Ph School-Gibson Elem.	6357 S Bayou Black Dr; Gibson	Big Bayou Black	0.0013 (average) 0.025 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG540737	001	Tesi-Midway Sub	5 Mi N Hwy 1; Thibodaux	Terrebonne-Lafourche Drainage Canal	0.0599227272727273 (average) 0.025 (permit max)	30 (monthly ave) 45 (weekly ave)

Table A-1. (continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LAG540934	001	McDonald Oxidation Svc, Inc.	1132 Hwy 3185; Thibodaux	Terrebonne Lafourche Drainage Canal	0.00144 (average) 0.025 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG541104	001	McDonald & Robichaux, Inc.	1809 Hwy 3185; Thibodaux	Terrebonne Lafourche Drainage Canal	0.00831 (average)	30 (monthly ave) 45 (weekly ave)
LAG541158	001	L&B Enterprises of Assumption	458 S Holly Rd; Labadieville	Bayou Black	0.00126 (average) 0.025 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG541223	001	Amg Land & Cattle Co - Mobile Home Park	1825 Bull Run Rd; Schriever	Bayou Black	0.025 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG541317	001	Mandalay Manor Trailer Park	End of Linda Lee Ct; Houma	Hanson Canal, Bayou Blue	0.015 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG560080	001	Harvest Cathedral Ministries	6045 Bayou Black Dr; Gibson	Bayou Black	0.02782 (average) 0.05 (permit max)	20 (monthly ave) 30 (weekly ave)
LAG560135	001	Terrebonne Par Consolidated Govt	Hwy 311, 1.5 M W of Hwy 24; Levytown	Ditch-Ouiski Bayou	0.0249602 5 (average) 0.05 (permit max)	20 (monthly ave) 30 (weekly ave)
LAG560174	001	Bayou Winds Mobile Home Village	5571 Bayou Black Dr; Gibson	Ditch-Swamp-Shell Canal-ICWW	0.03 (permit max)	20 (monthly ave) 30 (weekly ave)
LAG560175	001	Total Environment al Solutions	311 Gloria St; Thibodaux	Terrebonne/ Lafourche Drainage Canal	0.04625 (average)	20 (monthly ave) 30 (weekly ave)
LAG560197	001	Terrebonne Par Cons-Gibson Jar	Jarvis St N of Parish Rd #15; Gibson	Bayou Black	0.03 (average)	20 (monthly ave) 30 (weekly ave)
LAG560224	001	Tesi-Country Hollow	Main Project Rd & Bunny Ln; Schriever	Bayou Black	0.584 (average)	20 (monthly ave) 30 (weekly ave)
LAG570035	001	Lafourche Ph Sewer Dist #4	115 Ridgeway Dr; Thibodaux	Canal-Terrebonne/ Lafourche-Bay Black	0.078 (average)	10 (monthly ave) 15 (weekly ave)
LAG570091	001	Tesi-Rigolet's Utilities	Hwy 1; Thibodaux	B Cutoff Company Canal-ICWW	0.0504 (average)	10 (monthly ave) 15 (weekly ave)
LAG570155	001	Lakes of Terrebonne, LLC, The	LA Hwy 311; Houma	Bayou Black	0.0548 (average)	10 (monthly ave) 15 (weekly ave)
LAG570198	001	Total Environment al Solutions, Inc.	LA Hwy 308; Thibodaux	Arpent Canal, Grabd Bayou, Bayou Boeuf	0.0384 (average)	20 (monthly ave) 30 (weekly ave)

Table A-1. (continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
WG010090	001	J B Levert Land Company	Hwy 308; Thibodaux	Barataria Basin-Bayou Lafourche	0.005 (permit max)	45 (weekly ave)

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

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

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

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	NH3 (mg/l)
LA0111236	001	Daneco, Inc.	130 Daneco Ct; Houma	drainage-Hanson Canal-ICWW	0.2 (average) 0.5 (permit max)	20 (monthly ave) 30 (daily max)

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

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LA0043966	001	Village of Napoleonville	800 Martin Luther King Dr; Napoleonville	ditch-Godchaux Drainage Canal-Lake Verret	0.3 (average)	10 (monthly ave) 15 (weekly ave)
LA0118818	005.	Cimarex Energy Company-Pierre Pass Field	9 Mi Sw of Napoleonville	Lake Verret	0.00155 (average)	45 (weekly ave)
LAG530071	001	Bellsouth Pierre Port-Switching Station	off Hwy 70-End of Curtis St; Pierre Part	ditch-Bayou Gros Bec-Pierre Bayou	0.00002 (average)	45 (weekly ave)
LAG531350	001	Pierre Part Store, Inc.	3421 Hwy 70; Pierre Part	Pierre Bay	0.00166 (average)	45 (weekly ave)

Table A-4. (continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LAG531365	001	LA DOTD-Pierre Part Bridge	3266 Hwy 70 S; Pierre Part	Pierre Part Bay	0.00002 (average)	45 (weekly ave)
LAG531584	001	Assumption Parish Police Jury	LA Hwy 400; Napoleonville	Lake Verret	0.004 (average)	45 (weekly ave)
LAG532091	001	Vince's Bar-B-Que	3995 Hwy 70 S; Pierre Part	Lake Verret	0.001235 (average)	45 (weekly ave)
LAG540112	001	Tesi-Seraphim Estates	3948 Hwy 1; Napoleonville	Cancienne Canal-Lake Verret	0.0156 (average)	30 (monthly ave) 45 (daily max)
LAG540140	001	Assumption Ph Police-Violet Str	Hwy 308; Labadieville	Bayou Verret	0.02 (average)	30 (monthly ave) 45 (daily max)
LAG540154	001	Aucoin's Sewer Util-Kingston's	Hwy 1; Labadieville	unnamed ditch-Grassy Lake	0.018 (average)	30 (monthly ave) 45 (daily max)
LAG540155	001	Aucoin's Sewer Util-Labadie ES	Hwy 389; Labadieville	unnamed ditch-Grassy Lake	0.0176 (average)	30 (monthly ave) 45 (daily max)
LAG541048	001	Heritage Manor of Napoleonville	252 Hwy 402; Napoleonville	Lake Verret	0.0202 (average)	30 (monthly ave) 45 (daily max)
LAG560026	001	Aucoin's Sewer Util-Bayou Tran	Belle River, off Hwy 70	Lake Verret	0.044 (average)	20 (monthly ave) 30 (daily max)
LAG570240	001	Assumption Ph Police	Georgette St; Labadieville	Marias Canal-Bayou Lafourche-Gulf of Mexico	0.03 (average)	10 (monthly ave) 15 (daily max)

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

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

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

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LA0076775	001	Baker Atlas	2137 Bayou Blue Rd; Houma	ICWW	0.0002 (average)	45 (weekly ave)
LA0084077	001	Bollinger Larose, LLC	1515 Hwy 24; Larose	ICWW	0.0005 (average)	45 (weekly ave)
LA0084077	002	Bollinger Larose, LLC	1515 Hwy 24; Larose	ICWW	0.0005 (average)	45 (weekly ave)
LA0084077	004	Bollinger Larose, LLC	1515 Hwy 24; Larose	ICWW	0.005 (average)	45 (weekly ave)
LA0089648	008	Bourg Dry Dock & Service Company	136 Dry Dock Rd; Bourg	ICWW	0.0005 (average)	45 (weekly ave)
LA0089648	009	Bourg Dry Dock & Service Company	136 Dry Dock Rd; Bourg	ICWW	0.0005 (average)	45 (weekly ave)
LA0089648	010	Bourg Dry Dock & Service Company	136 Dry Dock Rd; Bourg	ICWW	0.0005 (average)	45 (weekly ave)
LA0096253	001	Bourg Dry Dock & Service Company	1097 E Hwy 182 ; Houma	Intracoastal Canal	0.0002 (average)	45 (weekly ave)
LA0097195	001	Bourg Dry Dock & Service Company	410 South Van Ave; Houma	ICWW	0.00025 (average)	45 (weekly ave)
LA0104868	001	Main Iron Works, LLC	148 Old Ferry Rd; Houma	ICWW	0.0003 (average)	45 (weekly ave)
LA0104868	002A	Main Iron Works, LLC	148 Old Ferry Rd; Houma	ICWW	0.00045 (average)	45 (weekly ave)
LA0104868	002B	Main Iron Works, LLC	148 Old Ferry Rd; Houma	ICWW	0.00045 (average)	45 (weekly ave)
LA0104868	003	Main Iron Works, LLC	148 Old Ferry Rd; Houma	ICWW	0.00045 (average)	45 (weekly ave)
LA0110299	001	PFG Caro	2324 Bayou Blue Rd; Houma	Hollywood Canal	0.01 (permit max)	30 (monthly ave) 45 (weekly ave)
LA0111376	101	Southern Scrap Recycling	838 Hwy 182; Houma	ICWW	0.0005 (average)	45 (weekly ave)
LA0112267	002	Neff Rental, Inc.	390 S Van Ave; Houma	ICWW	0.00035 (average)	45 (weekly ave)
LA0112267	003	Neff Rental, Inc.	390 S Van Ave; Houma	ICWW	0.00035 (average)	45 (weekly ave)
LA0118702	001	Allied Shipyard, Inc.-Larose Facility	310 Ledet Ln; Larose	ICWW	0.0002 (average)	45 (weekly ave)
LA0118702	002	Allied Shipyard, Inc.-Larose Facility	310 Ledet Ln; Larose	ICWW	0.0002 (average)	45 (weekly ave)

Table A-6. (continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LAG110090	002	Huey Stockstill, Inc.-Houma Asphalt Plant Sn 31888	1149 Coteau Rd; Houma	ICWW	0.005 (permit max)	45 (weekly ave)
LAG480216	101	Southern Scrap Recycling-Morgan City, LLC	838 Hwy 182; Houma	ICWW	0.0005 (average)	45 (weekly ave)

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

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

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

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD (mg/L)
LAG530324	001	Lafourche Telephone Co	112 W Tenth St; Larose, Lafourche Parish	unnamed ditch to unnamed canal	0.005 (permit max)	45 (weekly ave)
LAG531463	001	Big Bayou Blue Marina	1532 Hwy 24; Lockport, Lafourche Parish	Bayou Blue to ICWW	0.0025 (permit max)	45 (weekly ave)
LAG531463	002	Big Bayou Blue Marina	1532 Hwy 24; Lockport, Lafourche Parish	Bayou Blue to ICWW	0.0025 (permit max)	45 (weekly ave)
LAG531493	001	Lebouef Trailer Park	100 T John Court; Houma	Bayou Blue to Bayou Lafourche	0.005 (permit max)	45 (weekly ave)
LAG532034	001	Chiasson Welding Service	116 W 35 St; Cut off	Blue Canal to ICWW	0.001 (average)	45 (weekly ave)
LAG540624	001	Rousse Land Development-Bon Service Shopping Center	LA Hwy 1; Larose, Lafourche Parish	Grand Bayou Canal to Blue Canal	0.025 (permit max)	30 (monthly ave) 45 (weekly ave)

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

Table B-1. (Continued)

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

Table B-2. Water quality data from July 2006

Subsegment	Site ID	Date	TSS (mg/L)	Total phos. (mg/L)	Chloro-phyll *a* (µg/L)	TOC (mg/L)	TKN (mg/L)	Ammonia as N (mg/L)	NO_3 + NO_2 N (mg/L)
120202	114	7/18/06	11	0.09	0.029	7.00	0.98	< 0.1	< 0.04
	339	7/20/06	6	0.21	0.025	9.40	0.89	< 0.1	< 0.04
	120202-B	7/18/06	7	0.22	< 0.02	11.00	1.20	< 0.1	0.19
120204	145	7/19/06	26	0.92	0.11	9.30	2.00	< 0.1	< 0.04
	120204-A	7/19/06	34	0.21	0.020	5.50	1.20	< 0.1	1.10
	120204-D	7/19/06	16	0.63	0.074	12.00	1.60	< 0.1	< 0.04
	120204-E	7/19/06	20	0.89	< 0.02	7.10	4.10	0.17	2.10
	120204-F	7/19/06	37	0.66	0.15	11.00	2.80	< 0.1	< 0.04
	120204-G	7/19/06	19	0.26	0.098	6.90	2.50	< 0.1	0.23
	120204-K	7/19/06	32	0.39	0.1	9.00	1.70	< 0.1	< 0.04

Table B-2. (Continued)

Subsegment	Site ID	Date	TSS (mg/L)	Total phos. (mg/L)	Chloro-phyll *a* (µg/L)	TOC (mg/L)	TKN (mg/L)	Ammonia as N (mg/L)	NO_3 + NO_2 N (mg/L)
120304	340	7/21/06	75	0.19	0.027	5.90	1.20	0.12	0.48
	120304-A	7/21/06	48	0.15	0.021	6.60	1.20	0.15	0.27
120403	120403-D	7/20/06	23	0.16	< 0.02	6.90	1.30	< 0.1	0.42
	120403-G-1	7/18/06	36	0.28	0.058	7.90	1.60	< 0.1	0.33
	120403-G-2	7/18/06	35	0.33	0.051	7.70	1.80	< 0.1	0.34
	120403-H	7/18/06	61	0.18	< 0.02	4.80	1.40	< 0.1	1.50
	120403-I	7/18/06	29	0.24	0.066	7.50	1.60	< 0.1	0.39
	120403-J	7/21/06	9	0.13	< 0.02	6.50	0.98	< 0.1	0.42
120604	945	7/21/06	34	0.16	< 0.02	7.70	1.20	< 0.1	0.32
	945-2	7/21/06	28	0.15	< 0.02	7.80	1.20	< 0.1	0.33

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

Subsegment	Site ID	$CBOD_3$ (mg/L)	$CBOD_5$ (mg/L)	$CBOD_{12}$ (mg/L)	$CBOD_{18}$ (mg/L)	$CBOD_{25}$ (mg/L)	$CBOD_u$ decay rate (1/day)	$CBOD_U$ (mg/L)
120202	114	2.8	3.9	6.0	6.5	-	0.17	6.82
	120202-A	< 2	2.0	3.3	3.5	-	0.17	3.72
120204	145	5.2	8.4	20.0	20.0	-	0.18	22.08
	120204-A	< 2	< 2	3.0	2.5	-	0.60	2.75
	120204-D	3.0	4.4	9.7	13.0	-	0.04	25.90
	120204-E	< 2	< 2	3.3	3.0	3.4	0.60	3.23
	120204-F	7.6	10.0	26.0	28.0	31.0	0.12	32.84
	120204-G	5.0	7.1	17.0	16.0	16.0	0.22	16.83
	120204-K	5.4	6.6	19.0	20.0	-	0.13	23.50
120304	340	< 2	2.5	3.6	3.6	3.7	0.43	3.65
	120304-A	< 2	2.6	3.7	3.7	3.9	0.38	3.80
120403	339	< 2	< 2	< 2	2.7	3.0	0.10	3.29
	120403-G-1	2.4	4.0	7.7	14.0	-	0.04	27.57
	120403-G-2	2.4	3.9	15.0	14.0	-	0.31	15.20
	120403-H	< 2	< 2	2.6	2.2	-	0.60	2.40
	120403-I	2.4	4.2	16.0	13.0	12.0	0.43	13.79
	120403-J	< 2	2.2	3.7	3.5	3.5	0.22	3.67
120604	945	< 2	2.5	3.9	4.0	4.1	0.36	4.04
	945-2	< 2	2.4	3.9	3.9	4.1	0.34	4.02

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

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

Table B-4. (Continued)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table B-12. Available total nitrite+nitrate data for the middle Terrebonne Basin

Subsegment	Station	Station name	Period of record	No. of Obs.	Total NO_2+NO_3 minimum (mg/L)	Total NO_2+NO_3 maximum (mg/L)	Total NO_2+NO_3 average (mg/L)
120202	114	Black Bayou	3/8/78-2/1/05	197	0.0	1.52	0.22
120202	339	Blacak Bayou	2/4/91-11/16/04	63	0.02	1.05	0.13
120204	144	Lake Verret and Grassy Lake	1/13/87-8/2/05	101	0.01	1.7	0.10
120204	145	Lake Verret and Grassy Lake	1/13/87-12/11/90	47	0.01	0.42	0.06

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

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

Table B-14. Available total phosphorus data for the middle Terrebonne Basin

Subsegment	Station	Station name	Period of record	No. of Obs.	Total phos. minimum (mg/L)	Total phos. maximum (mg/L)	Total phos. average (mg/L)
120202	114	Black Bayou	3/8/78-2/1/05	188	0.01	0.79	0.17
120202	339	Blacak Bayou	2/4/91-11/16/04	68	0.01	0.71	0.18
120204	144	Lake Verret and Grassy Lake	1/13/87-8/2/05	100	0.07	0.97	0.22
120204	145	Lake Verret and Grassy Lake	1/13/87-12/11/90	40	0.06	0.86	0.24

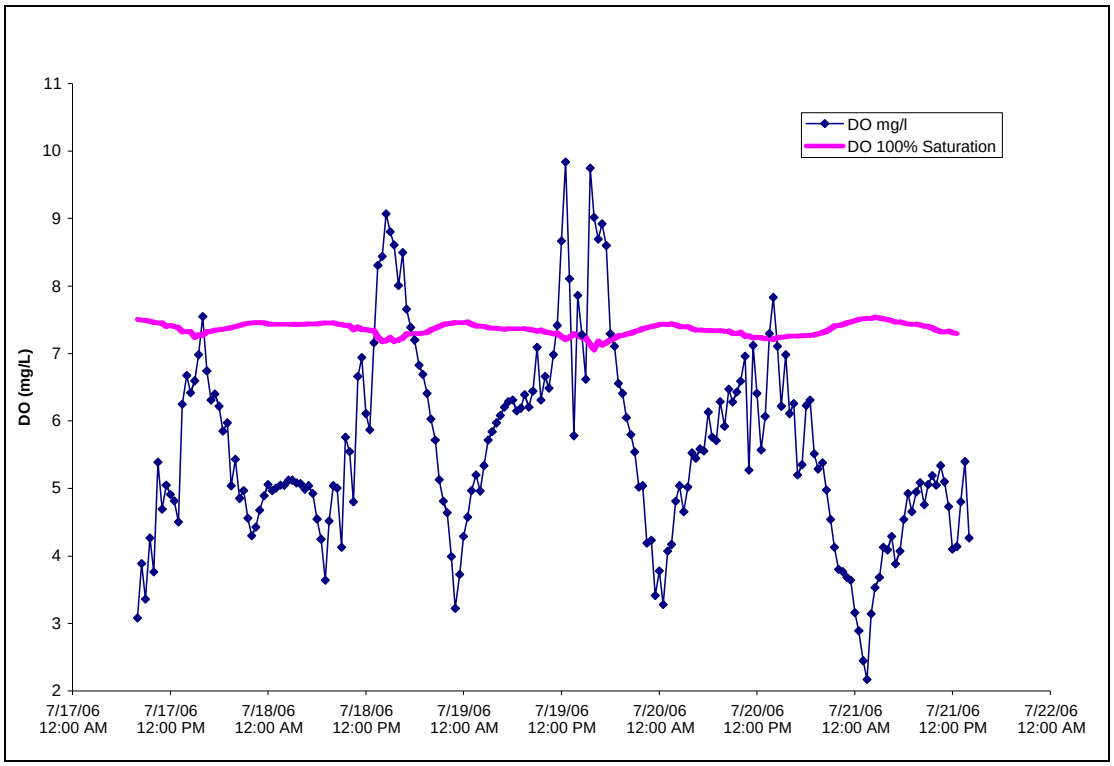

Figure B-1. Continuous monitoring data observed at Bayou Black at Gibson, LA (LDEQ 114).

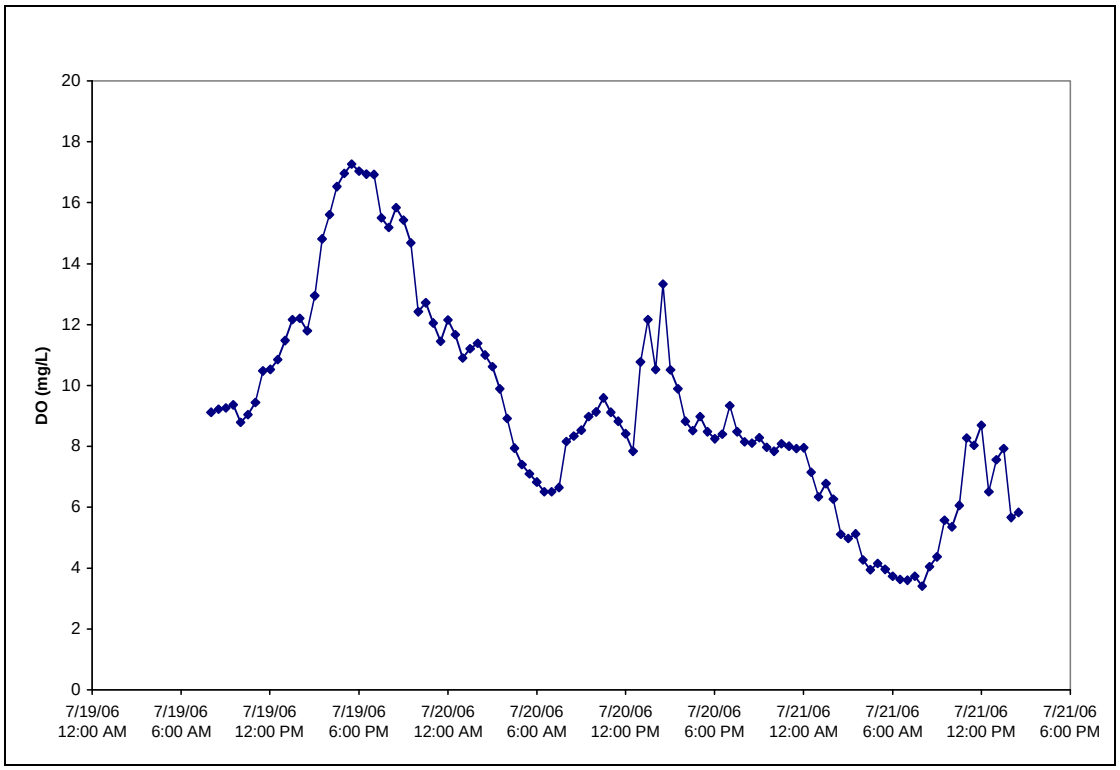

Figure B-2. Continuous monitoring data observed at Lake Verret at Attakapas Landing near Georgia (LDEQ 144).

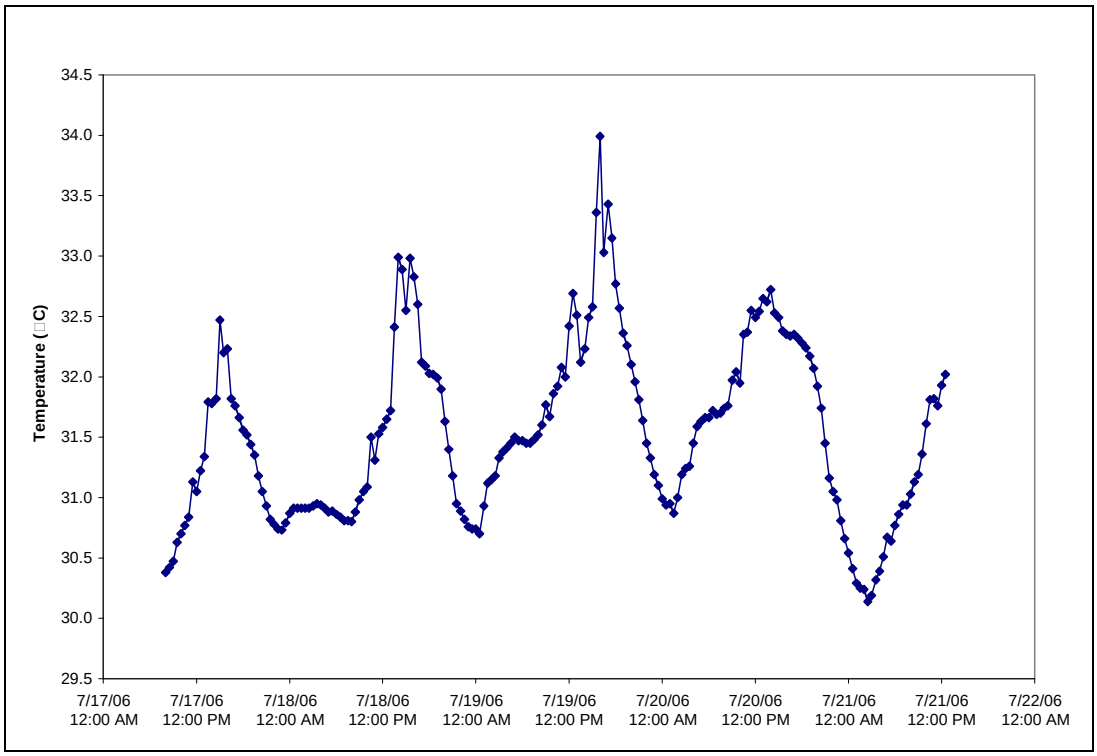

Figure B-3. Continuous temperature for middle Terrebonne Basin at station 114.

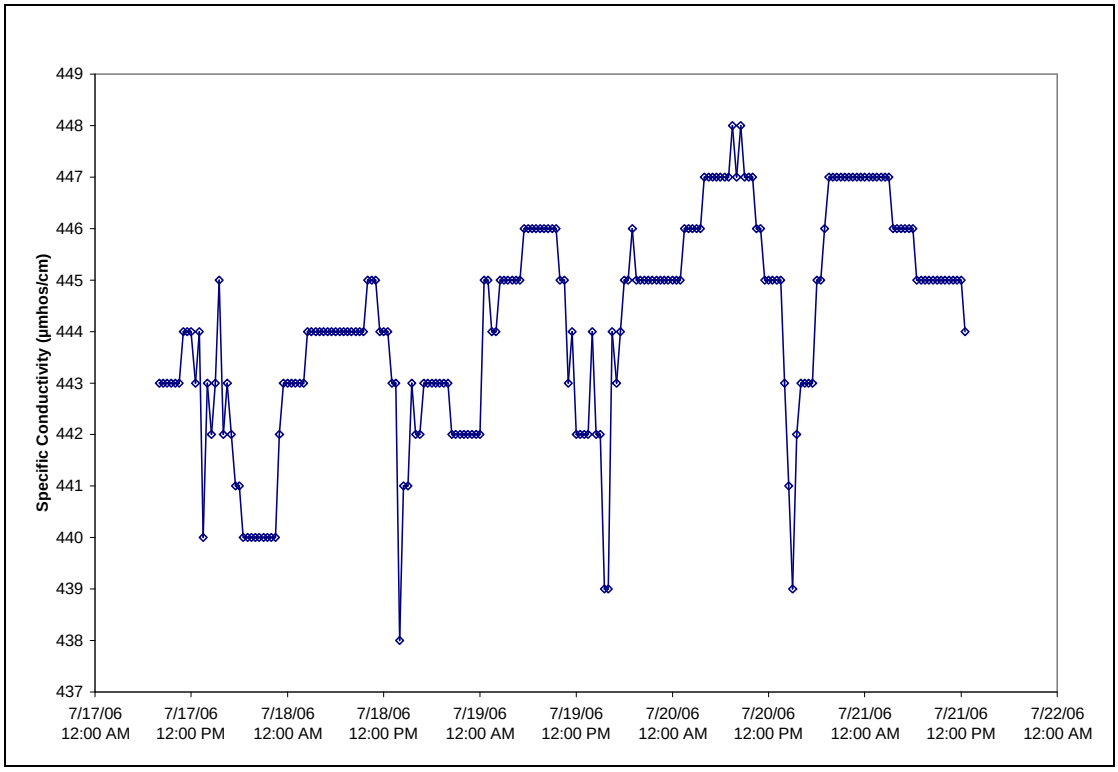

Figure B-4. Continuous specific conductivity for middle Terrebonne Basin at station 114.

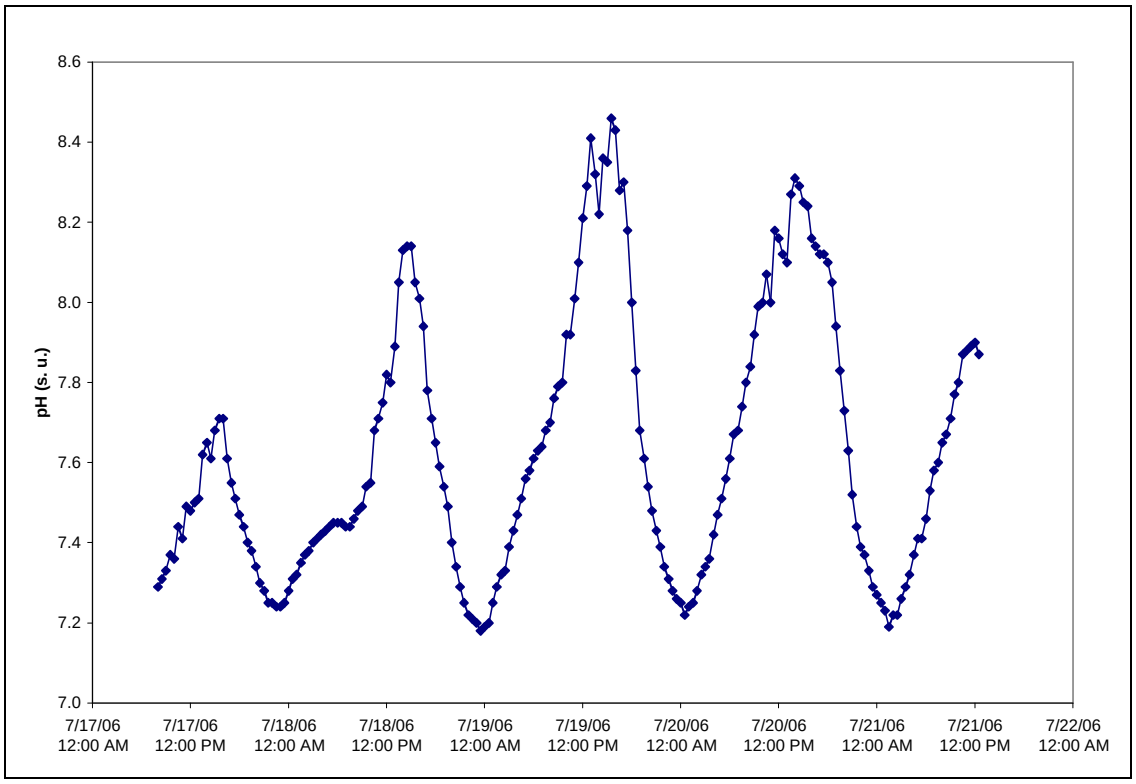

Figure B-5. Continuous pH for middle Terrebonne Basin at station 114.

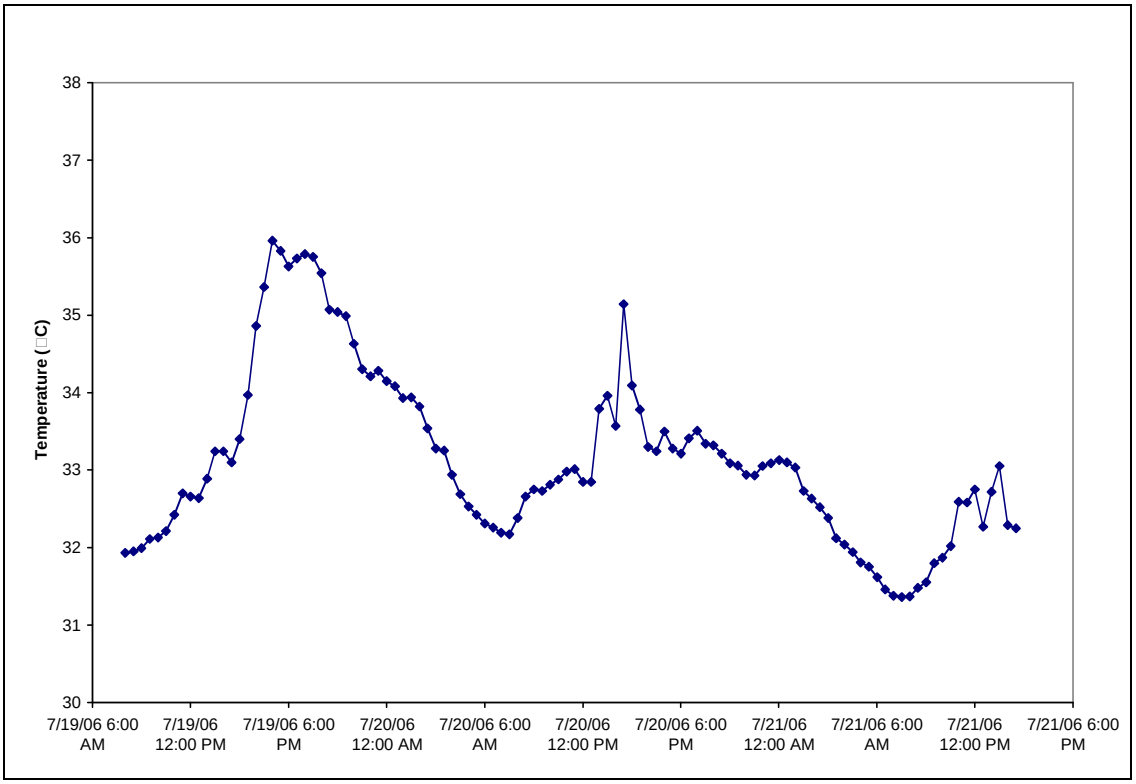

Figure B-6. Continuous temperature for middle Terrebonne at station 144.

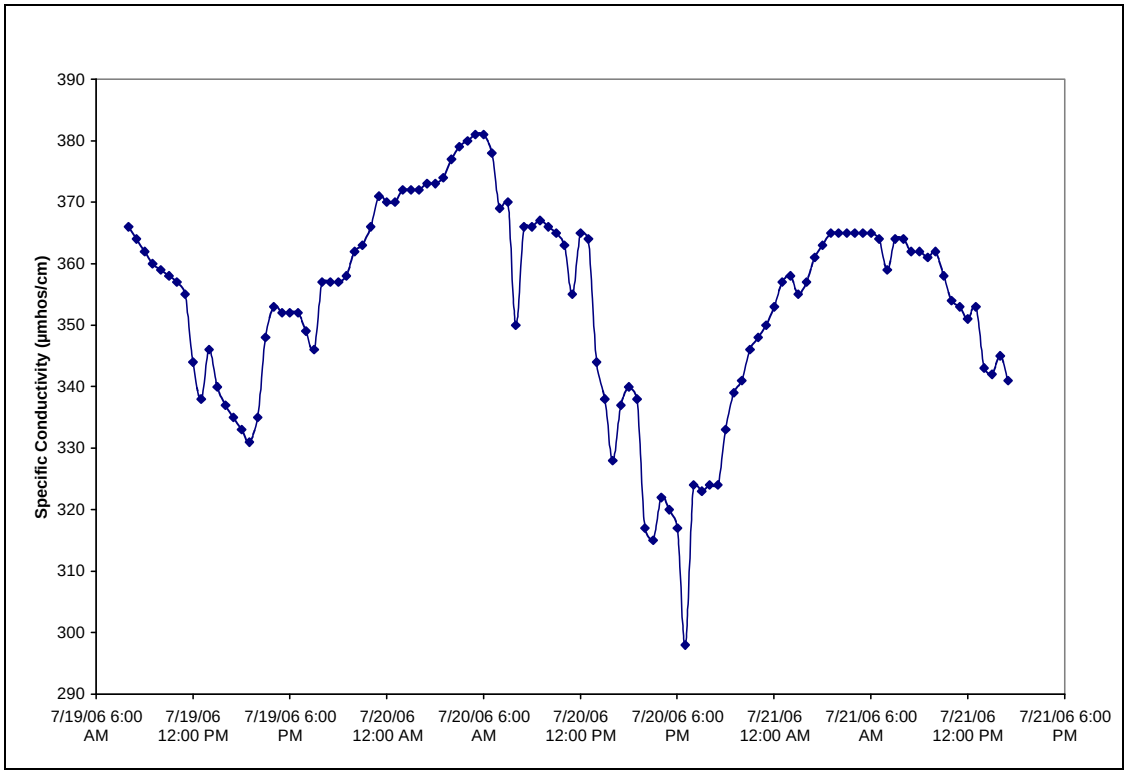

Figure B-7. Continuous specific conductivity for middle Terrebonne at station 144.

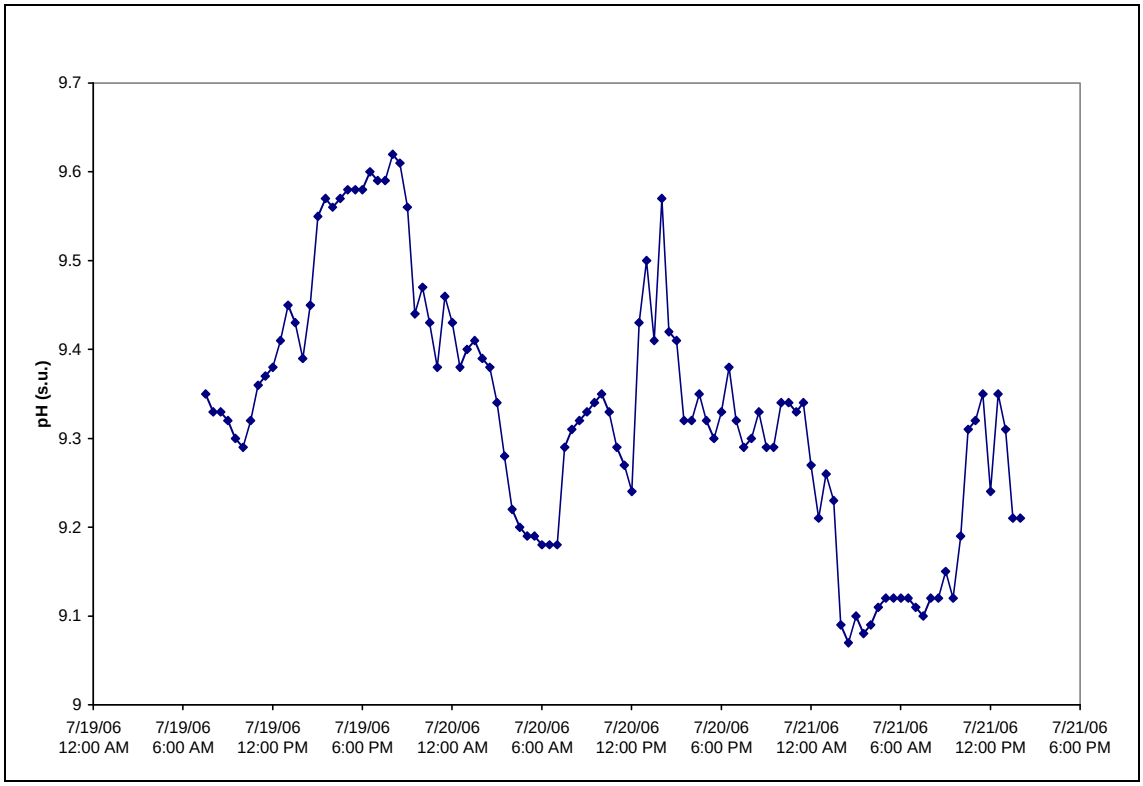

Figure B-8. Continuous pH for middle Terrebonne Basin at station 144.

APPENDIX C:
MODEL VECTOR DIAGRAMS

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

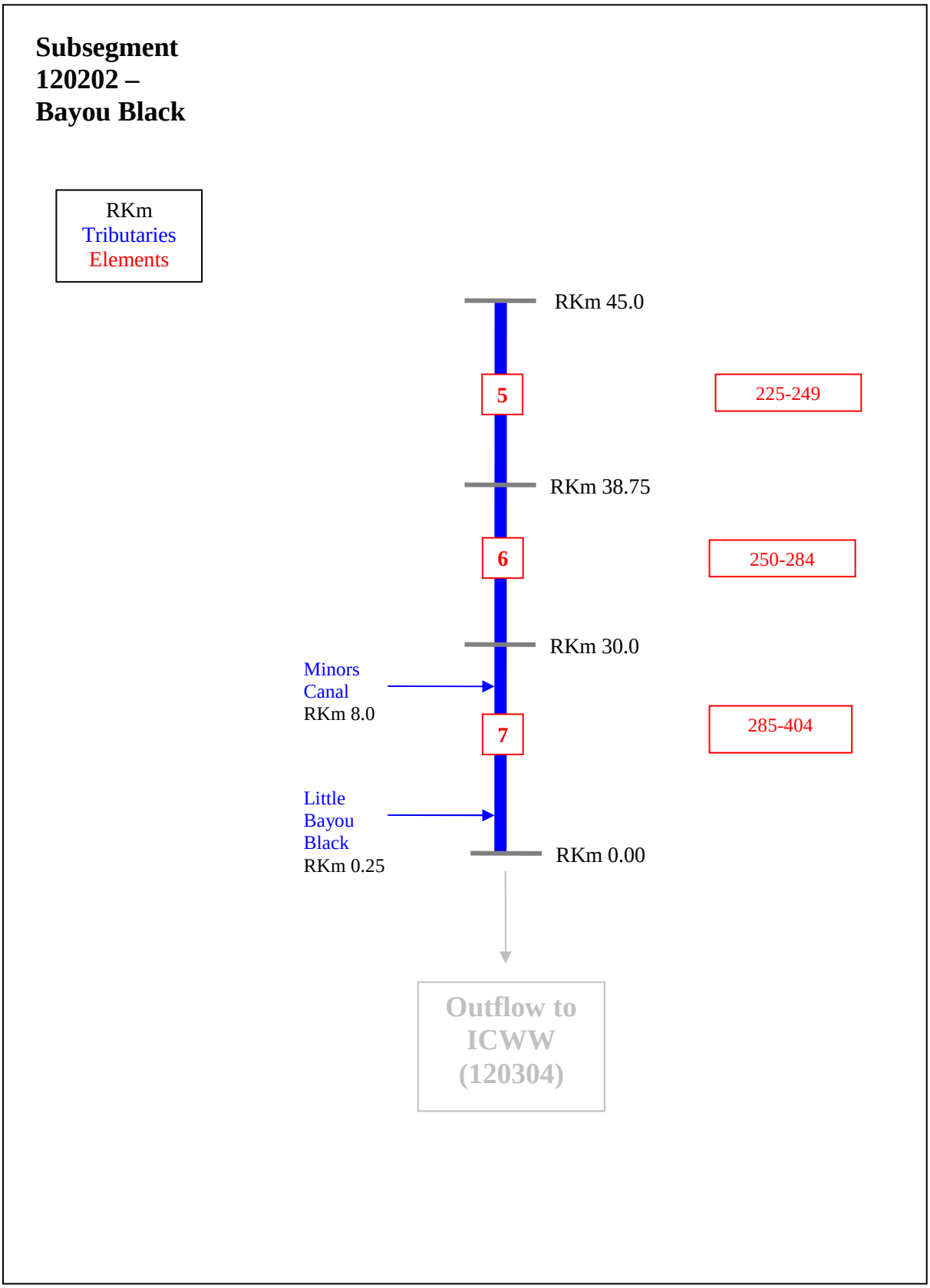

Figure C-1. Vector diagram for subsegment 120202.

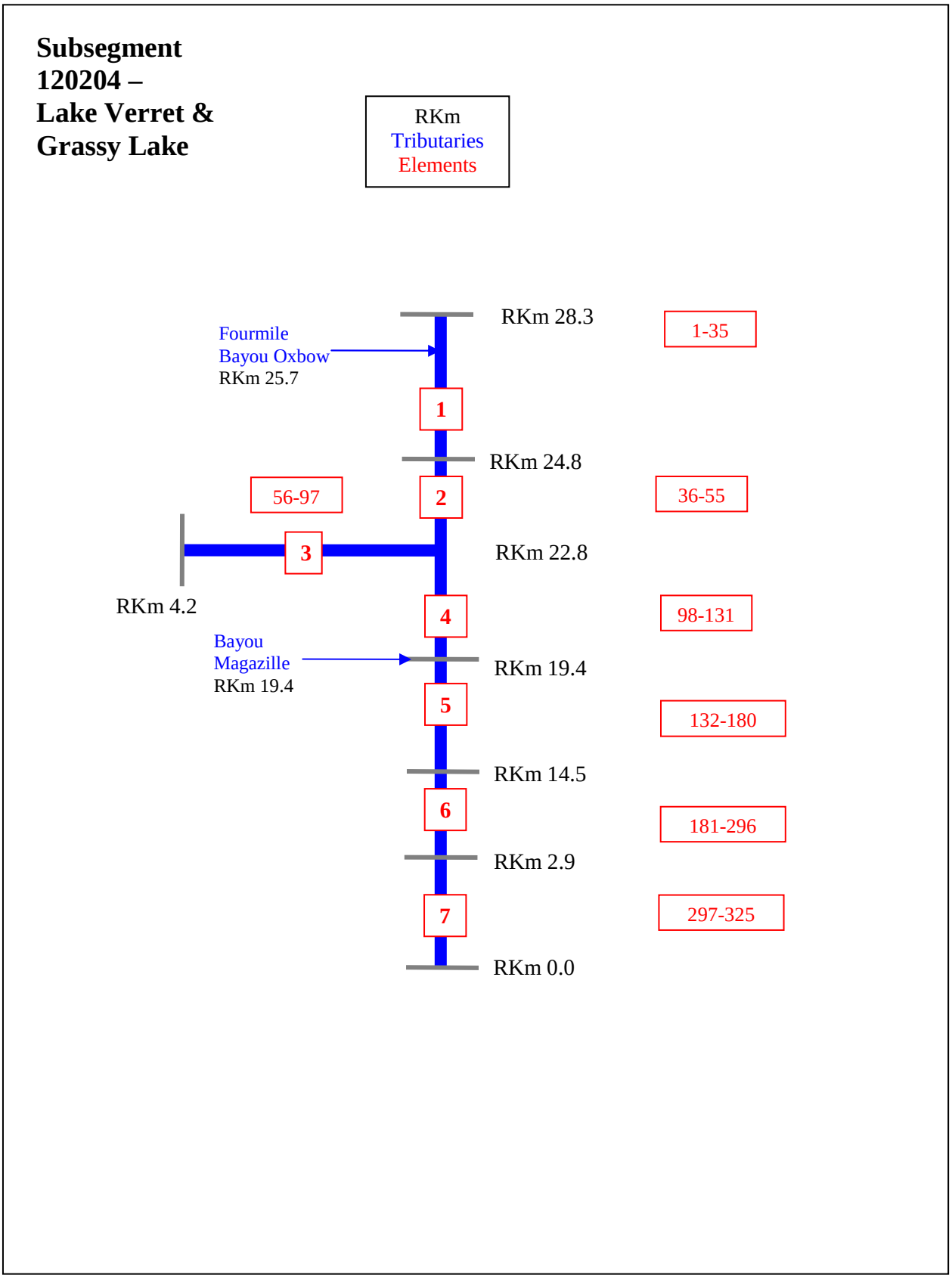

Figure C-2. Vector diagram for subsegment 120204.

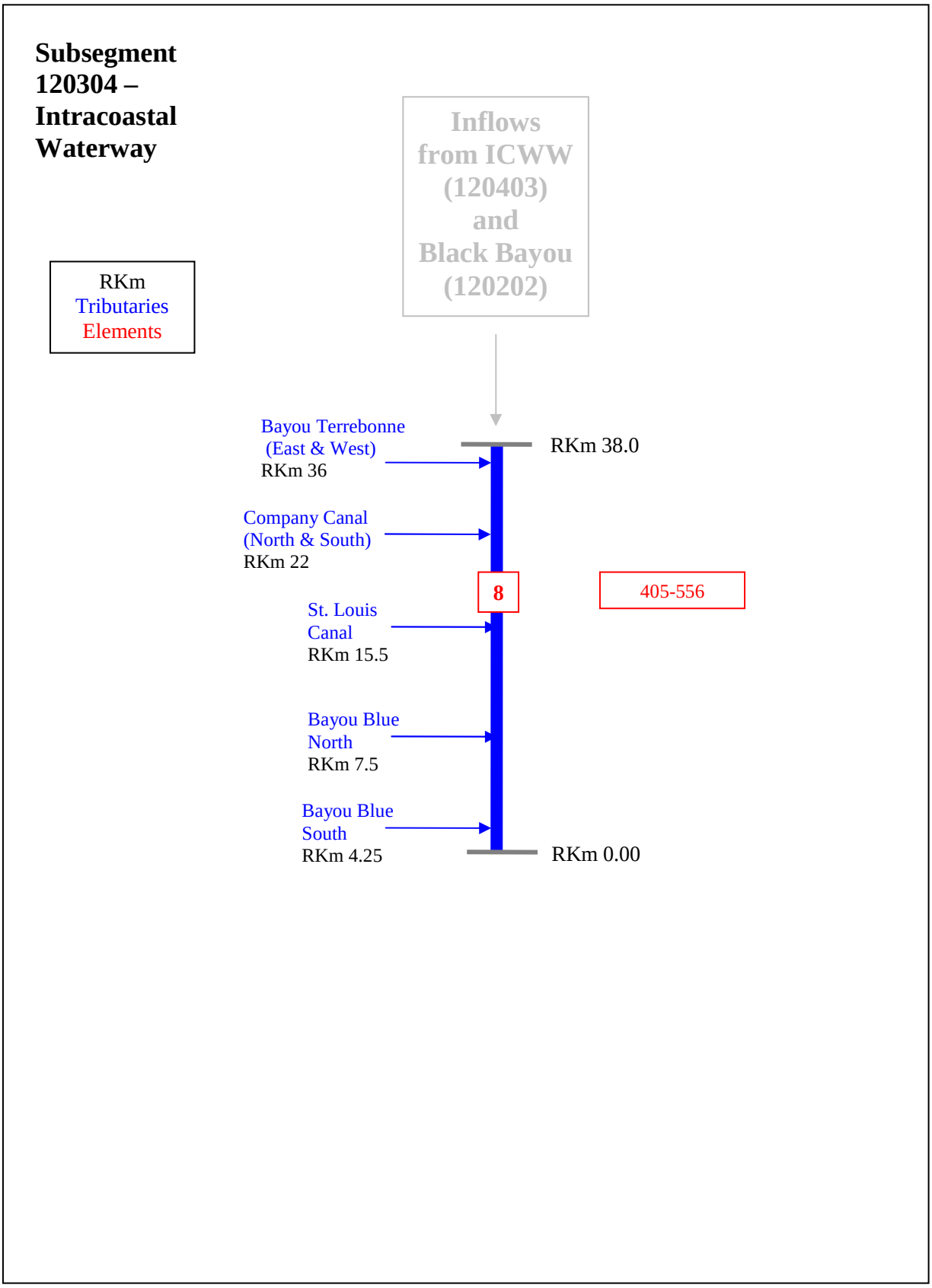

Figure C-3. Vector diagram for subsegment 120304.

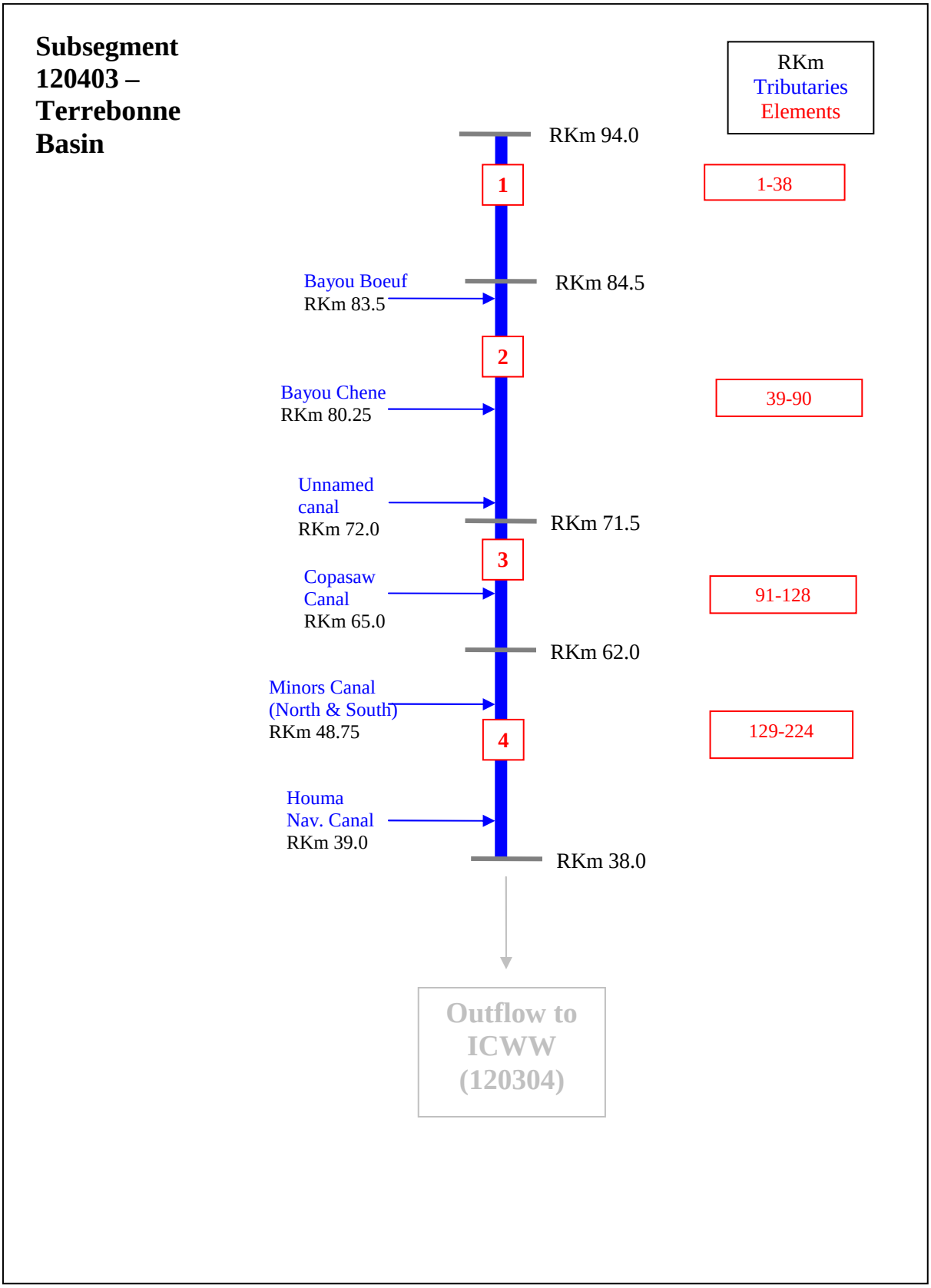

Figure C-4. Vector diagram for subsegment 120403.

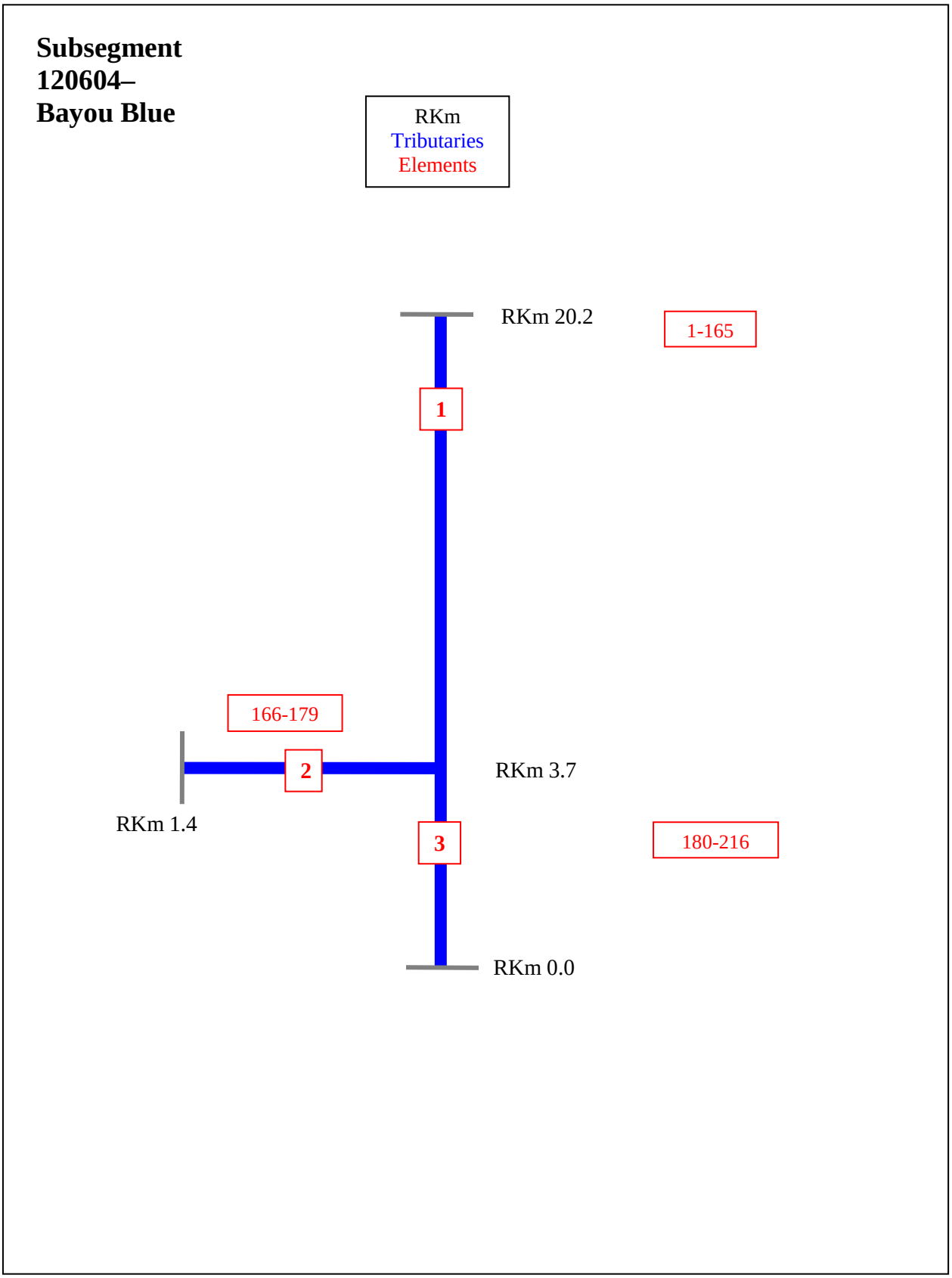

Figure C-5. Vector diagram for subsegment 120604.

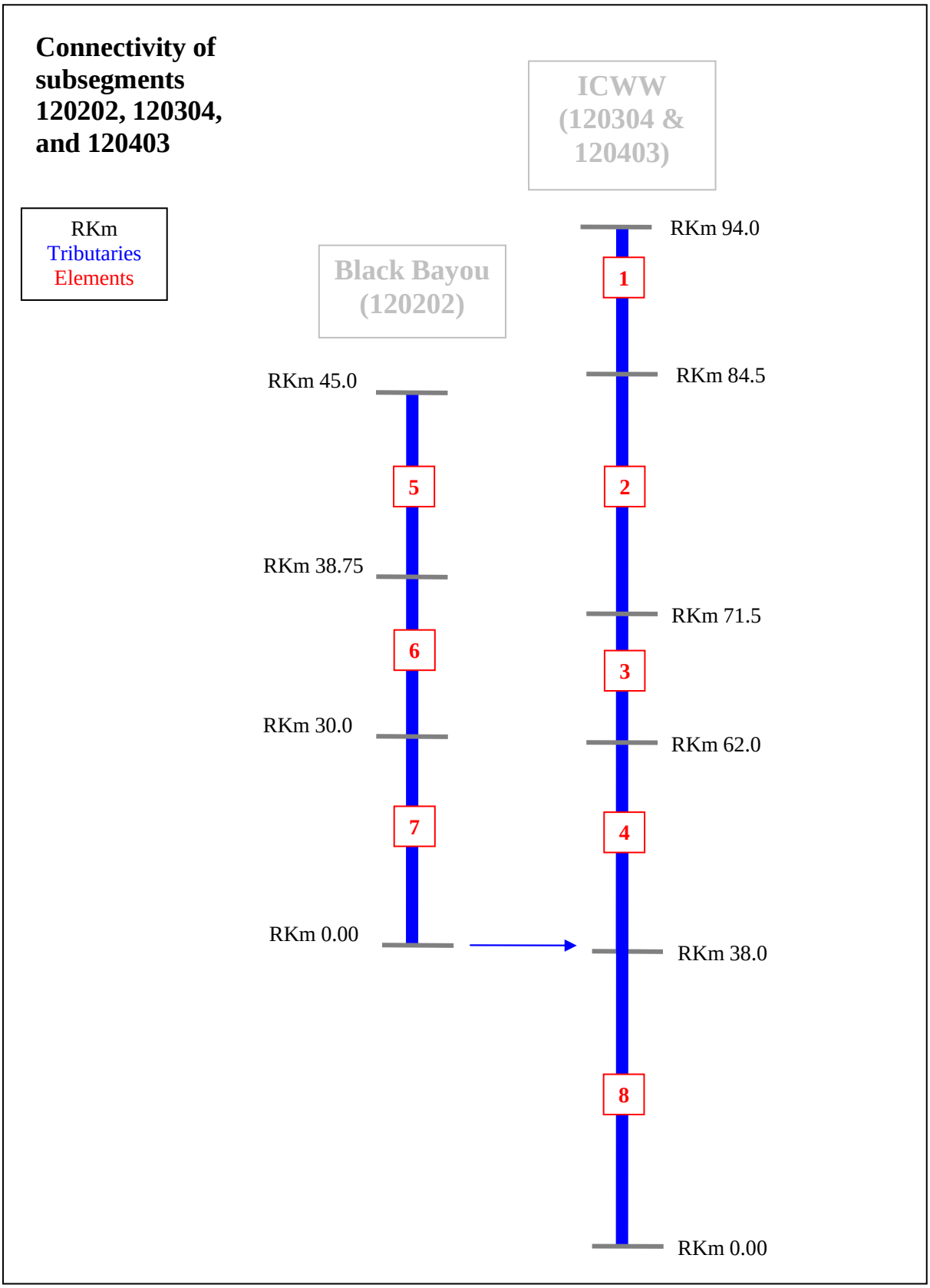

Figure C-6. Connectivity diagram for subsegments 120202, 120304, and 120403.

APPENDIX D:
MODEL OUTPUT FOR CALIBRATION

Calibration output file for subsegments 120202/120304/120403 1
Calibration output file for subsegment 120204 155
Calibration output file for subsegment 120604 252

Calibration output file for subsegments 120202/120304/120403

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

Input file is D:\LA TMDL 2006\TO95\TT_Models\MT_BB_ICWW\GIBB_wha.txt
Output produced at 09:22 on 10/16/2007

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

CARD TYPE      CONTROL TITLES

TITLE01        LA-QUAL calibration for Gulf ICWW and Bayou Black
TITLE02        FTN Field Survey calibration
CNTROL03   NO   SEQU                    <Warning: legacy control - line ignored>
CNTROL04  YES   METR
CNTROL05  YES   OXYG                    <Warning: legacy control - line ignored>
ENDATA01

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

CARD TYPE      MODEL OPTION

MODOPT01   NO   TEMP
MODOPT02   NO   SALI
MODOPT03   NO   CONSERVATIVE MATERIAL
MODOPT04   NO   CONSERVATIVE MATERIAL II
MODOPT05  YES   DISS
MODOPT06  YES   BIOC
MODOPT07  YES   NITR
MODOPT08   NO   PHOS
MODOPT09   NO   CHLO
MODOPT10   NO   MACR
MODOPT11   NO   COLI
MODOPT12   NO   NONC
ENDATA02

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

PROGRAM        HYDRAULIC CALCULATION METHOD      =        2.00000 (widths and depths)
PROGRAM        MAXIMUM ITERATION LIMIT           =      500.00000
PROGRAM        ALGAE OXYGEN PROD                 =        0.02600 mg O/ug chl a/day
PROGRAM        WIND                              =        1.30000 meters/sec
ENDATA03

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

```
 CARD TYPE     RATE CODE     THETA VALUE

THETA       NH3 DECA       1.07000
ENDATA04

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA05

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA06

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA07

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

REACH ID     1   IC  Gulf ICWW                    94.00  TO   84.50   0.2500     9.50     38       1     38
REACH ID     2   IC  Gulf ICWW                    84.50  TO   71.50   0.2500    13.00     52      39     90
REACH ID     3   IC  Gulf ICWW                    71.50  TO   62.00   0.2500     9.50     38      91    128
REACH ID     4   IC  Gulf ICWW                    62.00  TO   38.00   0.2500    24.00     96     129    224
REACH ID     5   BB  Bayou Black                  45.00  TO   38.75   0.2500     6.25     25     225    249
REACH ID     6   BB  Bayou Black                  38.75  TO   30.00   0.2500     8.75     35     250    284
REACH ID     7   BB  Bayou Black                  30.00  TO    0.00   0.2500    30.00    120     285    404
REACH ID     8   IC  Gulf ICWW                    38.00  TO    0.00   0.2500    38.00    152     405    556
ENDATA08

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

CARD TYPE  REACH  ID      WIDTH      WIDTH      WIDTH      DEPTH      DEPTH      DEPTH      SLOPE    MANNINGS
                          "A"        "B"        "C"        "D"        "E"        "F"                "N"

HYDR-1       1   IC      0.000      0.000    182.490      0.000      0.000      9.300    0.00000   0.000
HYDR-1       2   IC      0.000      0.000    209.060      0.000      0.000     13.350    0.00000   0.000
HYDR-1       3   IC      0.000      0.000    395.300      0.000      0.000     12.770    0.00000   0.000
HYDR-1       4   IC      0.000      0.000    190.000      0.000      0.000     12.190    0.00000   0.000
HYDR-1       5   BB      0.000      0.000    196.710      0.000      0.000      4.570    0.00000   0.000
HYDR-1       6   BB      0.000      0.000     31.170      0.000      0.000      1.160    0.00000   0.000
HYDR-1       7   BB      0.000      0.000     31.170      0.000      0.000      1.160    0.00000   0.000
```

```
HYDR-1      8  IC     0.000     0.000    155.800     0.000     0.000     12.800    0.00000  0.000
ENDATA09

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

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

ENDATA10

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

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

INITIAL        1  IC     31.20     0.00     6.70     0.10     0.00     0.00    20.00     0.00
INITIAL        2  IC     32.00     0.00     5.50     0.11     0.00     0.00    20.00     0.00
INITIAL        3  IC     32.10     0.00     5.05     0.12     0.00     0.00    20.00     0.00
INITIAL        4  IC     32.30     0.00     4.60     0.13     0.00     0.00    20.00     0.00
INITIAL        5  BB     32.10     0.00     5.70     0.10     0.00     0.00    25.00     0.00
INITIAL        6  BB     32.00     0.00     6.08     0.10     0.00     0.00    25.00     0.00
INITIAL        7  BB     32.00     0.00     6.08     0.10     0.00     0.00    50.00     0.00
INITIAL        8  IC     31.90     0.00     4.30     0.14     0.00     0.00    24.00     0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                          BOD    ANAER                    BOD2    ANAER
CARD    RCH  RCH  K2              K2      K2      K2   BKGRND     BOD     BOD    CONV    BOD2    BOD2    BOD2    CONV    BOD2
TYPE    NUM   ID  OPT            "A"     "B"     "C"     SOD   DECAY    SETT  TO SOD   DECAY   DECAY    SETT  TO SOD   DECAY
                                      g/m²/d  per day     m/d            per day  per day     m/d            per day

COEFF-1   1  IC  21 YU          0.000   0.000   0.000   1.000   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   2  IC  21 YU          0.000   0.000   0.000   1.000   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   3  IC  21 YU          0.000   0.000   0.000   2.000   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   4  IC  21 YU          0.000   0.000   0.000   2.200   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   5  BB  21 YU          0.000   0.000   0.000   0.700   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   6  BB  21 YU          0.000   0.000   0.000   0.700   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   7  BB  21 YU          0.000   0.000   0.000   1.300   0.170   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   8  IC  21 YU          0.000   0.000   0.000   1.300   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
ENDATA12

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

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

COEFF-2        1  IC     0.020    0.000    1.000    0.130    0.000    0.000    0.000
COEFF-2        2  IC     0.020    0.000    1.000    0.130    0.000    0.000    0.000
COEFF-2        3  IC     0.020    0.000    1.000    0.130    0.000    0.000    0.000
COEFF-2        4  IC     0.020    0.000    1.000    0.130    0.000    0.000    0.000
COEFF-2        5  BB     0.020    0.000    1.000    0.200    0.000    0.000    0.000
```

```
COEFF-2      6  BB    0.020   0.000   1.000    0.200   0.000   0.000   0.000
COEFF-2      7  BB    0.020   0.000   1.000    0.200   0.000   0.000   0.000
COEFF-2      8  IC    0.020   0.000   1.000    0.130   0.000   0.000   0.000
ENDATA13

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

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

ENDATA14

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

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

ENDATA15

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

CARD TYPE    REACH ID    OUTFLOW    INFLOW    TEMP    SALIN    CM-I    CM-II   IN/DIST  OUT/DIST

INCR-1       1  IC    0.00000   1.00000   30.90   0.00    0.00    0.00   0.10526   0.00000
INCR-1       2  IC    0.00000   0.85500   30.90   0.00    0.00    0.00   0.06577   0.00000
INCR-1       3  IC    0.00000   0.62500   30.90   0.00    0.00    0.00   0.06579   0.00000
INCR-1       4  IC    0.00000   1.57800   30.90   0.00    0.00    0.00   0.06575   0.00000
INCR-1       5  BB    0.00000   0.10000   29.70   0.00    0.00    0.00   0.01600   0.00000
INCR-1       6  BB    0.00000   0.10000   29.70   0.00    0.00    0.00   0.01143   0.00000
INCR-1       7  BB    0.00000   0.17200   29.70   0.00    0.00    0.00   0.00573   0.00000
INCR-1       8  IC    0.00000   3.25600   32.10   0.00    0.00    0.00   0.08568   0.00000
ENDATA16

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

CARD TYPE    REACH ID     DO     BOD    ORG-N   NH3-N   NO3-N   BOD#2

INCR-2       1  IC    7.22   6.67   1.40   0.10   0.00   0.00
INCR-2       2  IC    7.22   6.67   1.40   0.10   0.00   0.00
INCR-2       3  IC    7.22   6.67   1.40   0.10   0.00   0.00
INCR-2       4  IC    7.22   6.67   1.40   0.10   0.00   0.00
INCR-2       5  BB    5.00   3.70   1.10   0.10   0.00   0.00
INCR-2       6  BB    5.00   3.70   1.10   0.10   0.00   0.00
INCR-2       7  BB    5.00   3.70   1.10   0.10   0.00   0.00
INCR-2       8  IC    7.22   6.67   1.40   0.10   0.00   0.00
ENDATA17

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

CARD TYPE    REACH ID    PHOS    CHL A    COLI    NCM
```

```
ENDATA18

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

CARD TYPE     REACH  ID      BOD#1     ORG-N     COLI      NCM       DO     BOD#2

NONPOINT        1   IC    9000.00   520.00     0.00      0.00      0.00     0.00
NONPOINT        2   IC   22000.00   600.00     0.00      0.00      0.00     0.00
NONPOINT        3   IC   30000.00  1200.00     0.00      0.00      0.00     0.00
NONPOINT        4   IC   33000.00  1400.00     0.00      0.00      0.00     0.00
NONPOINT        5   BB     500.00    10.00     0.00      0.00      0.00     0.00
NONPOINT        6   BB     600.00    20.00     0.00      0.00      0.00     0.00
NONPOINT        7   BB    1050.00    20.00     0.00      0.00      0.00     0.00
NONPOINT        8   IC   75000.00  2000.00     0.00      0.00      0.00     0.00
ENDATA19

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

CARD TYPE    ELEMENT   NAME              UNIT    FLOW    FLOW    TEMP    SALIN     CM-I    CM-II
                                          m³/s     cfs   deg C     ppt

HDWTR-1        1     ICWW                0   0.25500    9.004   31.20     0.00     0.000     0.000   0.00
HDWTR-1      225     Bayou Black         0   0.00700    0.247   32.00     0.00     0.000     0.000   0.00
ENDATA20

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

CARD TYPE    ELEMENT   NAME                  DO    BOD#1    ORG-N    NH3-N    NO3-N    BOD#2
                                            mg/L     mg/L     mg/L     mg/L     mg/L     mg/L

HDWTR-2        1     ICWW                 6.70     3.70     1.30     0.10     0.00     0.00
HDWTR-2      225     Bayou Black          1.49     9.75     1.41     0.30     0.00     0.00
ENDATA21

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

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

ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM    RIVER    NAME
        ELEMENT  ELEMENT    KILOM

JUNCTION       405     224     38.00    ICWW and Bayou Black
ENDATA23
```

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

CARD TYPE	ELEMENT	RKILO	NAME	FLOW m³/s	FLOW cfs	FLOW MGD	TEMP deg C	SALIN ppt	CM-I	CM-II
WSTLD-1	39	84.50	Bayou Boeuff	47.90509	1691.56396	1093.448	31.20	0.00	0.000	0.000
WSTLD-1	57	80.00	Bayou Chene	-36.47580	-1287.98730	-832.571	31.20	0.00	0.000	0.000
WSTLD-1	89	72.00	Unnamed Canal	1.55720	54.98587	35.544	31.20	0.00	0.000	0.000
WSTLD-1	117	65.00	Copasaw Canal	15.28886	539.86090	348.973	31.20	0.00	0.000	0.000
WSTLD-1	181	49.00	Minors Canal South	4.47341	157.95940	102.107	31.20	0.00	0.000	0.000
WSTLD-1	181	49.00	Minors Canal North	-0.52378	-18.49506	-11.955	31.20	0.00	0.000	0.000
WSTLD-1	221	39.00	Houma Nav. Can.	-23.81100	-840.78394	-543.493	31.20	0.00	0.000	0.000
WSTLD-1	223	38.50	PS ICWW#1	0.00003	0.00106	0.001	31.20	0.00	0.000	0.000
WSTLD-1	260	36.25	LAG531469	0.00014	0.00494	0.003	31.20	0.00	0.000	0.000
WSTLD-1	268	34.25	LAG540726	0.00004	0.00141	0.001	31.20	0.00	0.000	0.000
WSTLD-1	278	31.75	PS Black Bayou#1	0.00150	0.05297	0.034	31.20	0.00	0.000	0.000
WSTLD-1	292	28.25	PS Black Bayou#2	0.00192	0.06780	0.044	31.20	0.00	0.000	0.000
WSTLD-1	312	23.25	LAG541223	0.00071	0.02507	0.016	31.20	0.00	0.000	0.000
WSTLD-1	331	18.50	PS Black Bayou#3	0.00018	0.00636	0.004	31.20	0.00	0.000	0.000
WSTLD-1	339	16.50	LAG541317	0.00042	0.01483	0.010	31.20	0.00	0.000	0.000
WSTLD-1	352	13.25	LA0111236	0.00566	0.19986	0.129	31.20	0.00	0.000	0.000
WSTLD-1	369	9.00	PS Hanson Canal	0.00160	0.05650	0.037	31.20	0.00	0.000	0.000
WSTLD-1	372	8.25	LA0074331	0.00001	0.00035	0.000	31.20	0.00	0.000	0.000
WSTLD-1	373	8.00	Minors Canal	0.52662	18.59534	12.020	31.20	0.00	0.000	0.000
WSTLD-1	401	1.00	Little Bayou Black	1.30238	45.98800	29.727	31.20	0.00	0.000	0.000
WSTLD-1	402	0.75	PS Lil Bayou Black	0.00039	0.01377	0.009	31.20	0.00	0.000	0.000
WSTLD-1	413	36.00	Bayou Terrebonne W.	1.41564	49.98729	32.312	31.20	0.00	0.000	0.000
WSTLD-1	413	36.00	Bayou Terrebonne E.	-0.96263	-33.99117	-21.972	31.20	0.00	0.000	0.000
WSTLD-1	417	35.00	LA0111376	0.00001	0.00035	0.000	31.20	0.00	0.000	0.000
WSTLD-1	461	24.00	LA0104868	0.00005	0.00177	0.001	31.20	0.00	0.000	0.000
WSTLD-1	467	22.50	LA0089648	0.00344	0.12147	0.079	31.20	0.00	0.000	0.000
WSTLD-1	469	22.00	Company Canal North	4.16197	146.96222	94.998	31.20	0.00	0.000	0.000
WSTLD-1	469	22.00	Company Canal South	-0.53794	-18.99506	-12.279	31.20	0.00	0.000	0.000
WSTLD-1	493	16.00	St Louis Canal	0.45300	15.99576	10.340	31.20	0.00	0.000	0.000
WSTLD-1	525	8.00	Bayou Bleu North	1.21745	42.98906	27.789	31.20	0.00	0.000	0.000
WSTLD-1	541	4.00	Bayou Bleu South	-0.39638	-13.99647	-9.047	31.20	0.00	0.000	0.000
WSTLD-1	549	2.00	PS ICWW#2	0.00004	0.00141	0.001	31.20	0.00	0.000	0.000

ENDATA24

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

CARD TYPE	ELEMENT	NAME	DO mg/L	% BOD mg/L	BOD mg/L	% RMVL mg/L	ORG-N mg/L	NH3-N mg/L	NITRIF	NO3-N	BOD#2
WSTLD-2	39	Bayou Boeuff	4.40	5.00	0.00	1.60	0.10	0.00	0.00	0.00	
WSTLD-2	57	Bayou Chene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
WSTLD-2	89	Unnamed Canal	6.60	6.20	0.00	1.40	0.10	0.00	0.00	0.00	
WSTLD-2	117	Copasaw Canal	6.60	6.20	0.00	1.40	0.10	0.00	0.00	0.00	
WSTLD-2	181	Minors Canal South	10.40	7.20	0.00	1.40	0.10	0.00	0.00	0.00	
WSTLD-2	181	Minors Canal North	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

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WSTLD-2    221  Houma Nav. Can.      0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00
WSTLD-2    223  PS ICWW#1            5.00  45.00   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    260  LAG531469            5.00  45.00   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    268  LAG540726            5.00  30.00   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    278  PS Black Bayou#1     5.00  24.70   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    292  PS Black Bayou#2     5.00  22.90   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    312  LAG541223            5.00  30.00   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    331  PS Black Bayou#3     5.00  45.00   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    339  LAG541317            5.00  30.00   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    352  LA0111236            5.00  25.00   0.00   1.40  20.00   0.00   2.00   0.00
WSTLD-2    369  PS Hanson Canal      5.00  11.00   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    372  LA0074331            5.00  45.00   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    373  Minors Canal        10.40   7.20   0.00   1.40   0.10   0.00   0.00   0.00
WSTLD-2    401  Little Bayou Black   2.30   9.40   0.00   1.63   0.14   0.00   0.00   0.00
WSTLD-2    402  PS Lil Bayou Black   5.00  45.00   0.00   1.63   1.50   0.00   2.00   0.00
WSTLD-2    413  Bayou Terrebonne W.  2.30   9.40   0.00   1.63   0.14   0.00   0.00   0.00
WSTLD-2    413  Bayou Terrebonne E.  0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00
WSTLD-2    417  LA0111376            5.00  45.00   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    461  LA0104868            5.00  45.00   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    467  LA0089648            5.00  30.80   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2    469  Company Canal North  3.89   9.80   0.00   1.34   0.10   0.00   0.00   0.00
WSTLD-2    469  Company Canal South  0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00
WSTLD-2    493  St Louis Canal       3.34   8.70   0.00   0.90   0.10   0.00   0.00   0.00
WSTLD-2    525  Bayou Bleu North     3.34   8.70   0.00   0.90   0.10   0.00   0.00   0.00
WSTLD-2    541  Bayou Bleu South     0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00
WSTLD-2    549  PS ICWW#2            5.00  45.00   0.00   1.40   1.50   0.00   2.00   0.00
ENDATA25

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

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

ENDATA26

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

CARD TYPE    CONSTITUENT                CONCENTRATION

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
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ENDATA29

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

NUMBER OF PLOTS = 2
NUMBER OF REACHES IN PLOT 1 = 5
PLOT RCH 1 2 3 4 8
NUMBER OF REACHES IN PLOT 2 = 3
PLOT RCH 5 6 7
ENDATA30

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

OVERLAY 1 GIWW.ovl :GIWW (subs 120403 and 120304)
OVERLAY 2 Black.ovl :Bayou Black (Sub 120202)
ENDATA31

.....NO ERRORS DETECTED IN INPUT DATA
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 7 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING: NEGATIVE CONCENTRATIONS SET TO ZERO FOR Nitrate+Nitrite Nitrogen
.....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
.....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12

INTERMEDIATE REPORT
Dissolved Oxygen LA-QUAL calibration for Gulf ICWW and Bayou Black
mg/L FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	6.32	6.48	6.59	6.64	6.67	6.68	6.69	6.69	6.69	6.70
IC	1	11	6.70	6.70	6.70	6.71	6.71	6.71	6.72	6.72	6.72	6.72
IC	1	21	6.73	6.73	6.73	6.74	6.74	6.74	6.74	6.75	6.75	6.75
IC	1	31	6.75	6.76	6.76	6.76	6.77	6.77	6.77	6.77		
IC	2	39	4.39	4.32	4.26	4.20	4.15	4.10	4.06	4.01	3.98	3.94
IC	2	49	3.91	3.88	3.85	3.83	3.81	3.79	3.77	3.76	3.75	3.72
IC	2	59	3.72	3.74	3.77	3.82	3.87	3.93	3.99	4.06	4.14	4.21
IC	2	69	4.29	4.37	4.45	4.53	4.60	4.68	4.76	4.84	4.91	4.99
IC	2	79	5.06	5.13	5.20	5.27	5.34	5.40	5.47	5.53	5.59	5.65
IC	2	89	5.75	5.76								
IC	3	91	5.63	5.52	5.43	5.35	5.28	5.22	5.16	5.12	5.08	5.04

IC	3	101	5.01	4.98	4.95	4.93	4.91	4.89	4.87	4.86	4.84	4.83
IC	3	111	4.82	4.81	4.80	4.79	4.79	4.78	5.45	5.24	5.06	4.91
IC	3	121	4.77	4.66	4.55	4.47	4.39	4.33	4.28	4.23		
IC	4	129	4.21	4.18	4.16	4.14	4.12	4.11	4.10	4.08	4.07	4.07
IC	4	139	4.06	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05
IC	4	149	4.06	4.06	4.07	4.08	4.08	4.09	4.10	4.11	4.12	4.13
IC	4	159	4.14	4.15	4.17	4.18	4.19	4.21	4.22	4.23	4.25	4.26
IC	4	169	4.28	4.29	4.31	4.33	4.34	4.36	4.38	4.39	4.41	4.43
IC	4	179	4.45	4.46	5.17	5.15	5.14	5.12	5.11	5.09	5.08	5.07
IC	4	189	5.07	5.06	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05
IC	4	199	5.06	5.06	5.07	5.07	5.08	5.09	5.09	5.10	5.11	5.12
IC	4	209	5.13	5.14	5.16	5.17	5.18	5.19	5.21	5.22	5.23	5.25
IC	4	219	5.26	5.28	5.29	5.34	5.39	5.43				
IC	8	405	5.10	5.13	5.14	5.15	5.16	5.16	5.15	5.15	4.86	4.81
IC	8	415	4.77	4.73	4.69	4.66	4.62	4.59	4.56	4.53	4.50	4.47
IC	8	425	4.44	4.42	4.39	4.37	4.35	4.32	4.30	4.28	4.26	4.24
IC	8	435	4.23	4.21	4.19	4.17	4.16	4.14	4.13	4.11	4.10	4.09
IC	8	445	4.07	4.06	4.05	4.04	4.03	4.01	4.00	3.99	3.98	3.97
IC	8	455	3.96	3.96	3.95	3.94	3.93	3.92	3.91	3.91	3.90	3.89
IC	8	465	3.88	3.88	3.87	3.86	3.79	3.71	3.64	3.58	3.52	3.47
IC	8	475	3.42	3.38	3.34	3.31	3.27	3.25	3.22	3.20	3.18	3.16
IC	8	485	3.15	3.13	3.12	3.11	3.10	3.10	3.09	3.09	3.08	3.07
IC	8	495	3.07	3.06	3.06	3.05	3.05	3.05	3.05	3.05	3.05	3.05
IC	8	505	3.05	3.06	3.06	3.06	3.07	3.07	3.08	3.08	3.09	3.09
IC	8	515	3.10	3.10	3.11	3.11	3.12	3.13	3.13	3.14	3.14	3.15
IC	8	525	3.15	3.14	3.14	3.13	3.13	3.13	3.12	3.12	3.12	3.12
IC	8	535	3.12	3.12	3.12	3.12	3.13	3.13	3.13	3.13	3.14	3.14
IC	8	545	3.15	3.15	3.15	3.16	3.16	3.17	3.17	3.18	3.18	3.19
IC	8	555	3.20	3.20								
BB	5	225	10.55	10.87	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89
BB	5	235	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89
BB	5	245	10.89	10.89	10.89	10.89	10.89					
BB	6	250	8.96	7.74	6.95	6.42	6.05	5.80	5.62	5.50	5.41	5.35
BB	6	260	5.31	5.28	5.27	5.27	5.27	5.29	5.30	5.32	5.34	5.37
BB	6	270	5.40	5.43	5.46	5.49	5.52	5.56	5.59	5.62	5.64	5.66
BB	6	280	5.70	5.73	5.77	5.81	5.85					
BB	7	285	5.44	5.20	5.05	4.98	4.95	4.95	4.97	4.98	5.00	5.03
BB	7	295	5.06	5.09	5.12	5.15	5.17	5.19	5.21	5.23	5.24	5.25
BB	7	305	5.26	5.27	5.27	5.27	5.27	5.27	5.27	5.26	5.25	5.24
BB	7	315	5.23	5.23	5.22	5.21	5.21	5.20	5.19	5.18	5.17	5.17
BB	7	325	5.16	5.15	5.14	5.13	5.12	5.11	5.09	5.08	5.07	5.06
BB	7	335	5.05	5.04	5.03	5.02	5.00	4.99	4.97	4.96	4.95	4.94
BB	7	345	4.93	4.92	4.90	4.89	4.88	4.87	4.86	4.68	4.55	4.46
BB	7	355	4.41	4.37	4.36	4.35	4.35	4.36	4.37	4.38	4.40	4.41
BB	7	365	4.42	4.43	4.44	4.45	4.45	4.46	4.46	4.46	7.67	7.33
BB	7	375	7.02	6.74	6.48	6.25	6.03	5.84	5.66	5.50	5.36	5.23
BB	7	385	5.11	5.00	4.90	4.81	4.73	4.65	4.58	4.52	4.46	4.41
BB	7	395	4.36	4.32	4.28	4.25	4.21	4.18	3.06	3.04	3.03	3.02

INTERMEDIATE REPORT

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

mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	2.55	2.36	2.32	2.31	2.31	2.31	2.30	2.30	2.30	2.30
IC	1	11	2.29	2.29	2.29	2.29	2.29	2.28	2.28	2.28	2.28	2.28
IC	1	21	2.27	2.27	2.27	2.27	2.27	2.26	2.26	2.26	2.26	2.25
IC	1	31	2.25	2.25	2.25	2.25	2.24	2.24	2.24	2.24		
IC	2	39	4.82	4.72	4.62	4.53	4.44	4.36	4.27	4.19	4.12	4.05
IC	2	49	3.98	3.91	3.85	3.79	3.73	3.67	3.62	3.56	3.52	3.35
IC	2	59	3.21	3.09	2.99	2.90	2.83	2.76	2.70	2.66	2.61	2.58
IC	2	69	2.55	2.52	2.50	2.48	2.46	2.45	2.43	2.42	2.41	2.41
IC	2	79	2.40	2.39	2.39	2.38	2.38	2.38	2.37	2.37	2.37	2.37
IC	2	89	2.71	2.67								
IC	3	91	2.61	2.57	2.54	2.51	2.49	2.47	2.46	2.45	2.44	2.43
IC	3	101	2.43	2.42	2.42	2.42	2.41	2.41	2.41	2.41	2.41	2.40
IC	3	111	2.40	2.40	2.40	2.40	2.40	2.40	4.07	3.89	3.72	3.57
IC	3	121	3.44	3.33	3.22	3.13	3.05	2.97	2.91	2.85		
IC	4	129	2.82	2.79	2.76	2.74	2.72	2.69	2.67	2.65	2.63	2.61
IC	4	139	2.60	2.58	2.56	2.55	2.54	2.52	2.51	2.50	2.49	2.48
IC	4	149	2.47	2.46	2.45	2.44	2.44	2.43	2.42	2.42	2.41	2.40
IC	4	159	2.40	2.39	2.39	2.38	2.38	2.38	2.37	2.37	2.37	2.36
IC	4	169	2.36	2.36	2.35	2.35	2.35	2.35	2.35	2.34	2.34	2.34
IC	4	179	2.34	2.34	2.91	2.88	2.85	2.83	2.80	2.78	2.76	2.74
IC	4	189	2.72	2.70	2.68	2.67	2.65	2.63	2.62	2.60	2.59	2.58
IC	4	199	2.57	2.56	2.54	2.53	2.52	2.52	2.51	2.50	2.49	2.48
IC	4	209	2.48	2.47	2.46	2.46	2.45	2.44	2.44	2.43	2.43	2.42
IC	4	219	2.42	2.42	2.41	2.40	2.39	2.39				
IC	8	405	3.15	3.22	3.27	3.33	3.38	3.42	3.46	3.50	3.99	3.98
IC	8	415	3.97	3.96	3.95	3.94	3.94	3.93	3.92	3.92	3.91	3.91
IC	8	425	3.90	3.90	3.90	3.89	3.89	3.89	3.89	3.88	3.88	3.88
IC	8	435	3.88	3.88	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
IC	8	445	3.87	3.87	3.87	3.87	3.87	3.86	3.86	3.86	3.86	3.86
IC	8	455	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
IC	8	465	3.86	3.86	3.87	3.87	4.97	4.89	4.82	4.75	4.69	4.63
IC	8	475	4.58	4.53	4.48	4.44	4.40	4.36	4.33	4.30	4.27	4.24
IC	8	485	4.21	4.19	4.17	4.15	4.13	4.11	4.09	4.08	4.15	4.13
IC	8	495	4.12	4.10	4.08	4.07	4.06	4.04	4.03	4.02	4.01	4.00
IC	8	505	3.99	3.98	3.97	3.97	3.96	3.95	3.95	3.94	3.94	3.93
IC	8	515	3.93	3.92	3.92	3.91	3.91	3.91	3.90	3.90	3.90	3.90
IC	8	525	4.13	4.11	4.10	4.08	4.07	4.06	4.05	4.03	4.02	4.01
IC	8	535	4.00	4.00	3.99	3.98	3.97	3.97	3.96	3.95	3.95	3.94
IC	8	545	3.94	3.93	3.93	3.92	3.92	3.92	3.91	3.91	3.91	3.90
IC	8	555	3.90	3.90								
BB	5	225	0.46	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
BB	5	235	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
BB	5	245	0.36	0.36	0.36	0.36	0.36					

BB	6	250	1.81	2.91	3.76	4.42	4.93	5.33	5.65	5.90	6.09	6.25
BB	6	260	6.41	6.50	6.58	6.64	6.70	6.74	6.77	6.80	6.83	6.85
BB	6	270	6.86	6.87	6.89	6.89	6.90	6.91	6.91	6.92	7.04	7.03
BB	6	280	7.02	7.01	7.00	6.99	6.99					
BB	7	285	6.49	6.07	5.70	5.39	5.11	4.88	4.67	4.64	4.47	4.32
BB	7	295	4.19	4.08	3.98	3.90	3.83	3.76	3.71	3.66	3.61	3.58
BB	7	305	3.54	3.52	3.49	3.47	3.45	3.43	3.42	3.47	3.45	3.44
BB	7	315	3.42	3.41	3.40	3.39	3.38	3.37	3.36	3.36	3.35	3.35
BB	7	325	3.34	3.34	3.33	3.33	3.33	3.33	3.35	3.34	3.34	3.34
BB	7	335	3.33	3.33	3.33	3.33	3.36	3.35	3.35	3.34	3.34	3.34
BB	7	345	3.33	3.33	3.33	3.33	3.33	3.32	3.32	3.68	3.64	3.61
BB	7	355	3.58	3.56	3.54	3.51	3.50	3.48	3.46	3.45	3.44	3.43
BB	7	365	3.42	3.41	3.40	3.39	3.42	3.41	3.40	3.39	5.61	5.53
BB	7	375	5.45	5.37	5.30	5.23	5.16	5.10	5.03	4.97	4.91	4.86
BB	7	385	4.80	4.75	4.70	4.65	4.61	4.56	4.52	4.48	4.44	4.40
BB	7	395	4.36	4.33	4.29	4.26	4.23	4.19	7.20	7.15	7.10	7.04

INTERMEDIATE REPORT
Biochemical Oxygen Demand
mg/L

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	2.55	2.36	2.32	2.31	2.31	2.31	2.30	2.30	2.30	2.30
IC	1	11	2.29	2.29	2.29	2.29	2.29	2.28	2.28	2.28	2.28	2.28
IC	1	21	2.27	2.27	2.27	2.27	2.27	2.26	2.26	2.26	2.26	2.25
IC	1	31	2.25	2.25	2.25	2.25	2.24	2.24	2.24	2.24		
IC	2	39	4.82	4.72	4.62	4.53	4.44	4.36	4.27	4.19	4.12	4.05
IC	2	49	3.98	3.91	3.85	3.79	3.73	3.67	3.62	3.56	3.52	3.35
IC	2	59	3.21	3.09	2.99	2.90	2.83	2.76	2.70	2.66	2.61	2.58
IC	2	69	2.55	2.52	2.50	2.48	2.46	2.45	2.43	2.42	2.41	2.41
IC	2	79	2.40	2.39	2.39	2.38	2.38	2.38	2.37	2.37	2.37	2.37
IC	2	89	2.71	2.67								
IC	3	91	2.61	2.57	2.54	2.51	2.49	2.47	2.46	2.45	2.44	2.43
IC	3	101	2.43	2.42	2.42	2.42	2.41	2.41	2.41	2.41	2.41	2.40
IC	3	111	2.40	2.40	2.40	2.40	2.40	2.40	4.07	3.89	3.72	3.57
IC	3	121	3.44	3.33	3.22	3.13	3.05	2.97	2.91	2.85		
IC	4	129	2.82	2.79	2.76	2.74	2.72	2.69	2.67	2.65	2.63	2.61
IC	4	139	2.60	2.58	2.56	2.55	2.54	2.52	2.51	2.50	2.49	2.48
IC	4	149	2.47	2.46	2.45	2.44	2.44	2.43	2.42	2.42	2.41	2.40
IC	4	159	2.40	2.39	2.39	2.38	2.38	2.38	2.37	2.37	2.37	2.36
IC	4	169	2.36	2.36	2.35	2.35	2.35	2.35	2.35	2.34	2.34	2.34
IC	4	179	2.34	2.34	2.91	2.88	2.85	2.83	2.80	2.78	2.76	2.74
IC	4	189	2.72	2.70	2.68	2.67	2.65	2.63	2.62	2.60	2.59	2.58
IC	4	199	2.57	2.56	2.54	2.53	2.52	2.52	2.51	2.50	2.49	2.48
IC	4	209	2.48	2.47	2.46	2.46	2.45	2.44	2.44	2.43	2.43	2.42
IC	4	219	2.42	2.42	2.41	2.40	2.39	2.39				
IC	8	405	3.15	3.22	3.27	3.33	3.38	3.42	3.46	3.50	3.99	3.98

IC	8	415	3.97	3.96	3.95	3.94	3.94	3.93	3.92	3.92	3.91	3.91
IC	8	425	3.90	3.90	3.90	3.89	3.89	3.89	3.89	3.88	3.88	3.88
IC	8	435	3.88	3.88	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
IC	8	445	3.87	3.87	3.87	3.87	3.87	3.86	3.86	3.86	3.86	3.86
IC	8	455	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
IC	8	465	3.86	3.86	3.87	3.87	4.97	4.89	4.82	4.75	4.69	4.63
IC	8	475	4.58	4.53	4.48	4.44	4.40	4.36	4.33	4.30	4.27	4.24
IC	8	485	4.21	4.19	4.17	4.15	4.13	4.11	4.09	4.08	4.15	4.13
IC	8	495	4.12	4.10	4.08	4.07	4.06	4.04	4.03	4.02	4.01	4.00
IC	8	505	3.99	3.98	3.97	3.97	3.96	3.95	3.95	3.94	3.94	3.93
IC	8	515	3.93	3.92	3.92	3.91	3.91	3.91	3.90	3.90	3.90	3.90
IC	8	525	4.13	4.11	4.10	4.08	4.07	4.06	4.05	4.03	4.02	4.01
IC	8	535	4.00	4.00	3.99	3.98	3.97	3.97	3.96	3.95	3.95	3.94
IC	8	545	3.94	3.93	3.93	3.92	3.92	3.92	3.91	3.91	3.91	3.90
IC	8	555	3.90	3.90								
BB	5	225	0.46	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
BB	5	235	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
BB	5	245	0.36	0.36	0.36	0.36	0.36					
BB	6	250	1.81	2.91	3.76	4.42	4.93	5.33	5.65	5.90	6.09	6.25
BB	6	260	6.41	6.50	6.58	6.64	6.70	6.74	6.77	6.80	6.83	6.85
BB	6	270	6.86	6.87	6.89	6.89	6.90	6.91	6.91	6.92	7.04	7.03
BB	6	280	7.02	7.01	7.00	6.99	6.99					
BB	7	285	6.49	6.07	5.70	5.39	5.11	4.88	4.67	4.64	4.47	4.32
BB	7	295	4.19	4.08	3.98	3.90	3.83	3.76	3.71	3.66	3.61	3.58
BB	7	305	3.54	3.52	3.49	3.47	3.45	3.43	3.42	3.47	3.45	3.44
BB	7	315	3.42	3.41	3.40	3.39	3.38	3.37	3.36	3.36	3.35	3.35
BB	7	325	3.34	3.34	3.33	3.33	3.33	3.33	3.35	3.34	3.34	3.34
BB	7	335	3.33	3.33	3.33	3.33	3.36	3.35	3.35	3.34	3.34	3.34
BB	7	345	3.33	3.33	3.33	3.33	3.33	3.32	3.32	3.68	3.64	3.61
BB	7	355	3.58	3.56	3.54	3.51	3.50	3.48	3.46	3.45	3.44	3.43
BB	7	365	3.42	3.41	3.40	3.39	3.42	3.41	3.40	3.39	5.61	5.53
BB	7	375	5.45	5.37	5.30	5.23	5.16	5.10	5.03	4.97	4.91	4.86
BB	7	385	4.80	4.75	4.70	4.65	4.61	4.56	4.52	4.48	4.44	4.40
BB	7	395	4.36	4.33	4.29	4.26	4.23	4.19	7.20	7.15	7.10	7.04

INTERMEDIATE REPORT
Organic Nitrogen
mg/L

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	1.30	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
IC	1	11	1.31	1.31	1.31	1.31	1.31	1.31	1.30	1.30	1.30	1.30
IC	1	21	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
IC	1	31	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30		
IC	2	39	1.59	1.58	1.58	1.58	1.57	1.57	1.56	1.56	1.56	1.55
IC	2	49	1.55	1.55	1.54	1.54	1.53	1.53	1.53	1.52	1.52	1.51
IC	2	59	1.49	1.48	1.47	1.45	1.44	1.43	1.42	1.41	1.39	1.38

IC	2	69	1.37	1.36	1.35	1.34	1.33	1.32	1.31	1.30	1.29	1.28
IC	2	79	1.27	1.26	1.25	1.24	1.23	1.23	1.22	1.21	1.20	1.19
IC	2	89	1.21	1.20								
IC	3	91	1.19	1.19	1.19	1.18	1.18	1.17	1.17	1.16	1.16	1.16
IC	3	101	1.15	1.15	1.14	1.14	1.14	1.13	1.13	1.13	1.12	1.12
IC	3	111	1.12	1.12	1.11	1.11	1.11	1.10	1.25	1.24	1.24	1.24
IC	3	121	1.24	1.23	1.23	1.23	1.22	1.22	1.22	1.22		
IC	4	129	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.20
IC	4	139	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.19
IC	4	149	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.18
IC	4	159	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
IC	4	169	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
IC	4	179	1.17	1.17	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
IC	4	189	1.19	1.19	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.18
IC	4	199	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.17
IC	4	209	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16
IC	4	219	1.16	1.16	1.16	1.16	1.16	1.16				
IC	8	405	1.20	1.20	1.20	1.20	1.19	1.19	1.19	1.19	1.23	1.23
IC	8	415	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.21	1.21	1.21
IC	8	425	1.21	1.21	1.21	1.21	1.21	1.20	1.20	1.20	1.20	1.20
IC	8	435	1.20	1.20	1.20	1.19	1.19	1.19	1.19	1.19	1.19	1.19
IC	8	445	1.19	1.19	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.18
IC	8	455	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.17	1.17
IC	8	465	1.17	1.17	1.17	1.17	1.20	1.20	1.20	1.20	1.20	1.20
IC	8	475	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
IC	8	485	1.19	1.19	1.19	1.18	1.18	1.18	1.18	1.18	1.17	1.17
IC	8	495	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
IC	8	505	1.17	1.17	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.16
IC	8	515	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
IC	8	525	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
IC	8	535	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
IC	8	545	1.14	1.14	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
IC	8	555	1.13	1.13								
BB	5	225	0.25	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BB	5	235	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BB	5	245	0.13	0.13	0.13	0.13	0.13					
BB	6	250	0.21	0.28	0.35	0.42	0.48	0.53	0.59	0.64	0.68	0.73
BB	6	260	0.77	0.81	0.84	0.88	0.91	0.94	0.97	0.99	1.02	1.05
BB	6	270	1.07	1.09	1.11	1.13	1.15	1.17	1.19	1.21	1.22	1.24
BB	6	280	1.25	1.27	1.28	1.29	1.31					
BB	7	285	1.30	1.29	1.28	1.27	1.27	1.26	1.25	1.24	1.24	1.23
BB	7	295	1.22	1.22	1.21	1.20	1.20	1.19	1.19	1.18	1.18	1.17
BB	7	305	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.12
BB	7	315	1.12	1.12	1.11	1.11	1.10	1.10	1.10	1.09	1.09	1.09
BB	7	325	1.08	1.08	1.08	1.07	1.07	1.07	1.06	1.06	1.06	1.05
BB	7	335	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03	1.03
BB	7	345	1.03	1.02	1.02	1.02	1.02	1.02	1.01	1.02	1.02	1.01
BB	7	355	1.01	1.01	1.01	1.01	1.01	1.00	1.00	1.00	1.00	1.00
BB	7	365	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.23	1.23
BB	7	375	1.23	1.23	1.23	1.23	1.22	1.22	1.22	1.22	1.22	1.22

BB	7	385	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.20	1.20	1.20
BB	7	395	1.20	1.20	1.20	1.19	1.19	1.19	1.45	1.45	1.45	1.44

INTERMEDIATE REPORT
Ammonia Nitrogen — LA-QUAL calibration for Gulf ICWW and Bayou Black
mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	1	11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	1	21	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	1	31	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12		
IC	2	39	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12
IC	2	49	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13
IC	2	59	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
IC	2	69	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13
IC	2	79	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	2	89	0.11	0.11								
IC	3	91	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	3	101	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	3	111	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.11	0.11	0.11
IC	3	121	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11		
IC	4	129	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12
IC	4	139	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	4	149	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	4	159	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	4	169	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	4	179	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	4	189	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	4	199	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	4	209	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	4	219	0.11	0.11	0.11	0.11	0.11	0.11				
IC	8	405	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12
IC	8	415	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	425	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	435	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	445	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	455	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	465	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	475	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	485	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	495	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	505	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
IC	8	515	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	525	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	535	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	545	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12

IC	8	555	0.12	0.12								
BB	5	225	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BB	5	235	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BB	5	245	0.01	0.01	0.01	0.01	0.01					
BB	6	250	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04
BB	6	260	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06
BB	6	270	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08
BB	6	280	0.08	0.08	0.08	0.08	0.08					
BB	7	285	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.08
BB	7	295	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BB	7	305	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.07
BB	7	315	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BB	7	325	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BB	7	335	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BB	7	345	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.38	0.34	0.31
BB	7	355	0.28	0.25	0.23	0.21	0.20	0.18	0.17	0.15	0.14	0.14
BB	7	365	0.13	0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10
BB	7	375	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BB	7	385	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08
BB	7	395	0.08	0.08	0.08	0.08	0.08	0.08	0.12	0.12	0.12	0.12

INTERMEDIATE REPORT
Nitrate+Nitrite Nitrogen — LA-QUAL calibration for Gulf ICWW and Bayou Black
mg/L — FTN Field Survey calibration

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

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

INTERMEDIATE REPORT
Total Nitrogen
mg/L

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	1.42	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
IC	1	11	1.43	1.43	1.43	1.42	1.42	1.42	1.42	1.42	1.42	1.42
IC	1	21	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42

IC	1	31	1.42	1.42	1.42	1.41	1.41	1.41	1.41	1.41		
IC	2	39	1.69	1.69	1.69	1.69	1.68	1.68	1.68	1.68	1.67	1.67
IC	2	49	1.67	1.67	1.67	1.66	1.66	1.66	1.65	1.65	1.65	1.64
IC	2	59	1.63	1.62	1.61	1.59	1.58	1.57	1.56	1.55	1.53	1.52
IC	2	69	1.51	1.50	1.49	1.47	1.46	1.45	1.44	1.43	1.42	1.41
IC	2	79	1.40	1.39	1.38	1.37	1.36	1.35	1.34	1.33	1.32	1.31
IC	2	89	1.32	1.31								
IC	3	91	1.31	1.30	1.30	1.29	1.29	1.28	1.28	1.27	1.27	1.26
IC	3	101	1.26	1.26	1.25	1.25	1.25	1.24	1.24	1.23	1.23	1.23
IC	3	111	1.23	1.22	1.22	1.22	1.21	1.21	1.35	1.35	1.35	1.35
IC	3	121	1.34	1.34	1.34	1.34	1.34	1.33	1.33	1.33		
IC	4	129	1.33	1.33	1.33	1.33	1.33	1.32	1.32	1.32	1.32	1.32
IC	4	139	1.32	1.32	1.32	1.32	1.32	1.31	1.31	1.31	1.31	1.31
IC	4	149	1.31	1.31	1.31	1.31	1.31	1.31	1.30	1.30	1.30	1.30
IC	4	159	1.30	1.30	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.29
IC	4	169	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28	1.28	1.28
IC	4	179	1.28	1.28	1.31	1.31	1.30	1.30	1.30	1.30	1.30	1.30
IC	4	189	1.30	1.30	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.29
IC	4	199	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28	1.28
IC	4	209	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
IC	4	219	1.28	1.27	1.27	1.27	1.27	1.27				
IC	8	405	1.31	1.31	1.31	1.31	1.31	1.30	1.30	1.30	1.34	1.34
IC	8	415	1.34	1.34	1.34	1.34	1.33	1.33	1.33	1.33	1.33	1.33
IC	8	425	1.33	1.33	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
IC	8	435	1.32	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
IC	8	445	1.31	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
IC	8	455	1.30	1.30	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
IC	8	465	1.29	1.29	1.29	1.29	1.32	1.32	1.31	1.31	1.31	1.31
IC	8	475	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
IC	8	485	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.30	1.30
IC	8	495	1.30	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.29	1.29
IC	8	505	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
IC	8	515	1.29	1.29	1.29	1.28	1.28	1.28	1.28	1.28	1.28	1.28
IC	8	525	1.27	1.27	1.27	1.26	1.26	1.26	1.26	1.26	1.26	1.26
IC	8	535	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
IC	8	545	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.25	1.25
IC	8	555	1.25	1.25								
BB	5	225	0.26	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BB	5	235	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BB	5	245	0.14	0.14	0.14	0.14	0.14					
BB	6	250	0.22	0.30	0.37	0.44	0.50	0.56	0.62	0.67	0.72	0.76
BB	6	260	0.81	0.85	0.89	0.93	0.96	0.99	1.02	1.05	1.08	1.11
BB	6	270	1.13	1.15	1.18	1.20	1.22	1.24	1.26	1.28	1.30	1.32
BB	6	280	1.33	1.35	1.36	1.37	1.38					
BB	7	285	1.38	1.37	1.36	1.35	1.34	1.34	1.33	1.33	1.32	1.32
BB	7	295	1.31	1.30	1.29	1.28	1.28	1.27	1.26	1.26	1.25	1.25
BB	7	305	1.24	1.23	1.23	1.22	1.22	1.21	1.21	1.21	1.20	1.20
BB	7	315	1.19	1.19	1.18	1.18	1.17	1.17	1.17	1.16	1.16	1.15
BB	7	325	1.15	1.15	1.14	1.14	1.14	1.13	1.13	1.13	1.13	1.12
BB	7	335	1.12	1.12	1.11	1.11	1.11	1.11	1.10	1.10	1.10	1.10

BB	7	345	1.09	1.09	1.09	1.09	1.08	1.08	1.08	1.40	1.36	1.32
BB	7	355	1.29	1.27	1.24	1.22	1.20	1.18	1.17	1.15	1.14	1.13
BB	7	365	1.12	1.11	1.11	1.10	1.10	1.09	1.09	1.08	1.33	1.33
BB	7	375	1.33	1.32	1.32	1.32	1.31	1.31	1.31	1.31	1.30	1.30
BB	7	385	1.30	1.30	1.30	1.29	1.29	1.29	1.29	1.29	1.28	1.28
BB	7	395	1.28	1.28	1.28	1.28	1.27	1.27	1.56	1.56	1.56	1.56

INTERMEDIATE REPORT
Chlorophyll a
µg/L

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	1	11	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	1	21	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	1	31	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00		
IC	2	39	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	49	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	59	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	69	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	79	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	89	20.00	20.00								
IC	3	91	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	3	101	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	3	111	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	3	121	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00		
IC	4	129	20.04	20.08	20.12	20.17	20.21	20.25	20.29	20.33	20.38	20.42
IC	4	139	20.46	20.50	20.54	20.58	20.62	20.67	20.71	20.75	20.79	20.83
IC	4	149	20.88	20.92	20.96	21.00	21.04	21.08	21.12	21.17	21.21	21.25
IC	4	159	21.29	21.33	21.38	21.42	21.46	21.50	21.54	21.58	21.62	21.67
IC	4	169	21.71	21.75	21.79	21.83	21.88	21.92	21.96	22.00	22.04	22.08
IC	4	179	22.12	22.17	22.21	22.25	22.29	22.33	22.38	22.42	22.46	22.50
IC	4	189	22.54	22.58	22.62	22.67	22.71	22.75	22.79	22.83	22.88	22.92
IC	4	199	22.96	23.00	23.04	23.08	23.12	23.17	23.21	23.25	23.29	23.33
IC	4	209	23.38	23.42	23.46	23.50	23.54	23.58	23.62	23.67	23.71	23.75
IC	4	219	23.79	23.83	23.88	23.92	23.96	24.00				
IC	8	405	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	415	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	425	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	435	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	445	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	455	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	465	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	475	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	485	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	495	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	505	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00

IC	8	515	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	525	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	535	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	545	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
IC	8	555	24.00	24.00								
BB	5	225	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
BB	5	235	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
BB	5	245	25.00	25.00	25.00	25.00	25.00					
BB	6	250	25.71	26.43	27.14	27.86	28.57	29.29	30.00	30.71	31.43	32.14
BB	6	260	32.86	33.57	34.29	35.00	35.71	36.43	37.14	37.86	38.57	39.29
BB	6	270	40.00	40.71	41.43	42.14	42.86	43.57	44.29	45.00	45.71	46.43
BB	6	280	47.14	47.86	48.57	49.29	50.00					
BB	7	285	49.78	49.57	49.35	49.13	48.92	48.70	48.48	48.27	48.05	47.83
BB	7	295	47.62	47.40	47.18	46.97	46.75	46.53	46.32	46.10	45.88	45.67
BB	7	305	45.45	45.23	45.02	44.80	44.58	44.37	44.15	43.93	43.72	43.50
BB	7	315	43.28	43.07	42.85	42.63	42.42	42.20	41.98	41.77	41.55	41.33
BB	7	325	41.12	40.90	40.68	40.47	40.25	40.03	39.82	39.60	39.38	39.17
BB	7	335	38.95	38.73	38.52	38.30	38.08	37.87	37.65	37.43	37.22	37.00
BB	7	345	36.78	36.57	36.35	36.13	35.92	35.70	35.48	35.27	35.05	34.83
BB	7	355	34.62	34.40	34.18	33.97	33.75	33.53	33.32	33.10	32.88	32.67
BB	7	365	32.45	32.23	32.02	31.80	31.58	31.37	31.15	30.93	30.72	30.50
BB	7	375	30.28	30.07	29.85	29.63	29.42	29.20	28.98	28.77	28.55	28.33
BB	7	385	28.12	27.90	27.68	27.47	27.25	27.03	26.82	26.60	26.38	26.17
BB	7	395	25.95	25.73	25.52	25.30	25.08	24.87	24.65	24.43	24.22	24.00

INTERMEDIATE REPORT
Temperature
deg C

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

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

IC	4	159	32.17	32.17	32.16	32.16	32.15	32.15	32.15	32.14	32.14	32.13
IC	4	169	32.13	32.12	32.12	32.12	32.11	32.11	32.10	32.10	32.10	32.09
IC	4	179	32.09	32.08	32.08	32.08	32.07	32.07	32.06	32.06	32.05	32.05
IC	4	189	32.05	32.04	32.04	32.03	32.03	32.02	32.02	32.02	32.01	32.01
IC	4	199	32.00	32.00	32.00	31.99	31.99	31.98	31.98	31.98	31.97	31.97
IC	4	209	31.96	31.96	31.95	31.95	31.95	31.94	31.94	31.93	31.93	31.92
IC	4	219	31.92	31.92	31.91	31.91	31.90	31.90				
IC	8	405	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	415	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	425	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	435	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	445	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	455	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	465	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	475	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	485	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	495	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	505	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	515	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	525	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	535	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	545	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90	31.90
IC	8	555	31.90	31.90								
BB	5	225	32.10	32.09	32.09	32.08	32.08	32.08	32.07	32.07	32.06	32.06
BB	5	235	32.06	32.05	32.05	32.04	32.04	32.04	32.03	32.03	32.02	32.02
BB	5	245	32.02	32.01	32.01	32.00	32.00					
BB	6	250	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
BB	6	260	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
BB	6	270	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
BB	6	280	32.00	32.00	32.00	32.00	32.00					
BB	7	285	32.00	32.00	32.00	32.00	32.00	32.00	31.99	31.99	31.99	31.99
BB	7	295	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.98	31.98
BB	7	305	31.98	31.98	31.98	31.98	31.98	31.98	31.98	31.98	31.98	31.98
BB	7	315	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97
BB	7	325	31.97	31.97	31.96	31.96	31.96	31.96	31.96	31.96	31.96	31.96
BB	7	335	31.96	31.96	31.96	31.95	31.95	31.95	31.95	31.95	31.95	31.95
BB	7	345	31.95	31.95	31.95	31.95	31.95	31.94	31.94	31.94	31.94	31.94
BB	7	355	31.94	31.94	31.94	31.94	31.94	31.94	31.94	31.93	31.93	31.93
BB	7	365	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.92
BB	7	375	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92
BB	7	385	31.92	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91
BB	7	395	31.91	31.91	31.91	31.90	31.90	31.90	31.90	31.90	31.90	31.90

INTERMEDIATE REPORT
Salinity
ppt

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

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

IC	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	2	39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	89	0.00	0.00								
IC	3	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	4	129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	219	0.00	0.00	0.00	0.00	0.00	0.00				
IC	8	405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	415	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	555	0.00	0.00								
BB	5	225	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	245	0.00	0.00	0.00	0.00	0.00					
BB	6	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	280	0.00	0.00	0.00	0.00	0.00					
BB	7	285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	295	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BB	7	305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	385	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

INTERMEDIATE REPORT
River Distance
km

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	94.	94.	93.	93.	93.	92.	92.	92.	92.	92.
IC	1	11	91.	91.	91.	90.	90.	90.	90.	90.	89.	89.
IC	1	21	89.	88.	88.	88.	88.	88.	87.	87.	87.	86.
IC	1	31	86.	86.	86.	86.	85.	85.	85.	84.		
IC	2	39	84.	84.	84.	84.	83.	83.	83.	82.	82.	82.
IC	2	49	82.	82.	81.	81.	81.	80.	80.	80.	80.	80.
IC	2	59	79.	79.	79.	78.	78.	78.	78.	78.	77.	77.
IC	2	69	77.	76.	76.	76.	76.	76.	75.	75.	75.	74.
IC	2	79	74.	74.	74.	74.	73.	73.	73.	72.	72.	72.
IC	2	89	72.	72.								
IC	3	91	71.	71.	71.	70.	70.	70.	70.	70.	69.	69.
IC	3	101	69.	68.	68.	68.	68.	68.	67.	67.	67.	66.
IC	3	111	66.	66.	66.	66.	65.	65.	65.	64.	64.	64.
IC	3	121	64.	64.	63.	63.	63.	62.	62.	62.		
IC	4	129	62.	62.	61.	61.	61.	60.	60.	60.	60.	60.
IC	4	139	59.	59.	59.	58.	58.	58.	58.	58.	57.	57.
IC	4	149	57.	56.	56.	56.	56.	56.	55.	55.	55.	54.
IC	4	159	54.	54.	54.	54.	53.	53.	53.	52.	52.	52.
IC	4	169	52.	52.	51.	51.	51.	50.	50.	50.	50.	50.
IC	4	179	49.	49.	49.	48.	48.	48.	48.	48.	47.	47.
IC	4	189	47.	46.	46.	46.	46.	46.	45.	45.	45.	44.
IC	4	199	44.	44.	44.	44.	43.	43.	43.	42.	42.	42.
IC	4	209	42.	42.	41.	41.	41.	40.	40.	40.	40.	40.
IC	4	219	39.	39.	39.	38.	38.	38.				
IC	8	405	38.	38.	37.	37.	37.	36.	36.	36.	36.	36.
IC	8	415	35.	35.	35.	34.	34.	34.	34.	34.	33.	33.
IC	8	425	33.	32.	32.	32.	32.	32.	31.	31.	31.	30.
IC	8	435	30.	30.	30.	30.	29.	29.	29.	28.	28.	28.
IC	8	445	28.	28.	27.	27.	27.	26.	26.	26.	26.	26.
IC	8	455	25.	25.	25.	24.	24.	24.	24.	24.	23.	23.
IC	8	465	23.	22.	22.	22.	22.	22.	21.	21.	21.	20.

IC	8	475	20.	20.	20.	20.	19.	19.	19.	18.	18.	18.
IC	8	485	18.	18.	17.	17.	17.	16.	16.	16.	16.	16.
IC	8	495	15.	15.	15.	14.	14.	14.	14.	14.	13.	13.
IC	8	505	13.	12.	12.	12.	12.	12.	11.	11.	11.	10.
IC	8	515	10.	10.	10.	10.	9.	9.	9.	8.	8.	8.
IC	8	525	8.	8.	7.	7.	7.	6.	6.	6.	6.	6.
IC	8	535	5.	5.	5.	4.	4.	4.	4.	4.	3.	3.
IC	8	545	3.	2.	2.	2.	2.	2.	1.	1.	1.	0.
IC	8	555	0.	0.								
BB	5	225	45.	44.	44.	44.	44.	44.	43.	43.	43.	42.
BB	5	235	42.	42.	42.	42.	41.	41.	41.	40.	40.	40.
BB	5	245	40.	40.	39.	39.	39.					
BB	6	250	38.	38.	38.	38.	38.	37.	37.	37.	36.	36.
BB	6	260	36.	36.	36.	35.	35.	35.	34.	34.	34.	34.
BB	6	270	34.	33.	33.	33.	32.	32.	32.	32.	32.	31.
BB	6	280	31.	31.	30.	30.	30.					
BB	7	285	30.	30.	29.	29.	29.	28.	28.	28.	28.	28.
BB	7	295	27.	27.	27.	26.	26.	26.	26.	26.	25.	25.
BB	7	305	25.	24.	24.	24.	24.	24.	23.	23.	23.	22.
BB	7	315	22.	22.	22.	22.	21.	21.	21.	20.	20.	20.
BB	7	325	20.	20.	19.	19.	19.	18.	18.	18.	18.	18.
BB	7	335	17.	17.	17.	16.	16.	16.	16.	16.	15.	15.
BB	7	345	15.	14.	14.	14.	14.	14.	13.	13.	13.	12.
BB	7	355	12.	12.	12.	12.	11.	11.	11.	10.	10.	10.
BB	7	365	10.	10.	9.	9.	9.	8.	8.	8.	8.	8.
BB	7	375	7.	7.	7.	6.	6.	6.	6.	6.	5.	5.
BB	7	385	5.	4.	4.	4.	4.	4.	3.	3.	3.	2.
BB	7	395	2.	2.	2.	2.	1.	1.	1.	0.	0.	0.

INTERMEDIATE REPORT

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

m^3/s — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5
IC	1	11	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.8
IC	1	21	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0
IC	1	31	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.3		
IC	2	39	49.2	49.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.3
IC	2	49	49.3	49.4	49.4	49.4	49.4	49.4	49.4	49.5	13.0	13.0
IC	2	59	13.0	13.0	13.1	13.1	13.1	13.1	13.1	13.1	13.2	13.2
IC	2	69	13.2	13.2	13.2	13.2	13.3	13.3	13.3	13.3	13.3	13.3
IC	2	79	13.4	13.4	13.4	13.4	13.4	13.4	13.5	13.5	13.5	13.5
IC	2	89	15.1	15.1								
IC	3	91	15.1	15.1	15.1	15.2	15.2	15.2	15.2	15.2	15.2	15.3
IC	3	101	15.3	15.3	15.3	15.3	15.3	15.4	15.4	15.4	15.4	15.4
IC	3	111	15.4	15.5	15.5	15.5	15.5	15.5	30.8	30.8	30.9	30.9

IC	3	121	30.9	30.9	30.9	30.9	31.0	31.0	31.0	31.0		
IC	4	129	31.0	31.0	31.1	31.1	31.1	31.1	31.1	31.1	31.2	31.2
IC	4	139	31.2	31.2	31.2	31.2	31.3	31.3	31.3	31.3	31.3	31.3
IC	4	149	31.4	31.4	31.4	31.4	31.4	31.4	31.5	31.5	31.5	31.5
IC	4	159	31.5	31.5	31.6	31.6	31.6	31.6	31.6	31.6	31.7	31.7
IC	4	169	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8
IC	4	179	31.8	31.9	35.8	35.8	35.9	35.9	35.9	35.9	35.9	35.9
IC	4	189	36.0	36.0	36.0	36.0	36.0	36.0	36.1	36.1	36.1	36.1
IC	4	199	36.1	36.1	36.2	36.2	36.2	36.2	36.2	36.2	36.3	36.3
IC	4	209	36.3	36.3	36.3	36.3	36.4	36.4	36.4	36.4	36.4	36.4
IC	4	219	36.5	36.5	12.7	12.7	12.7	12.7				
IC	8	405	15.0	15.0	15.0	15.0	15.1	15.1	15.1	15.1	15.6	15.6
IC	8	415	15.6	15.7	15.7	15.7	15.7	15.7	15.8	15.8	15.8	15.8
IC	8	425	15.9	15.9	15.9	15.9	15.9	16.0	16.0	16.0	16.0	16.0
IC	8	435	16.1	16.1	16.1	16.1	16.2	16.2	16.2	16.2	16.2	16.3
IC	8	445	16.3	16.3	16.3	16.3	16.4	16.4	16.4	16.4	16.5	16.5
IC	8	455	16.5	16.5	16.5	16.6	16.6	16.6	16.6	16.6	16.7	16.7
IC	8	465	16.7	16.7	16.8	16.8	20.4	20.4	20.5	20.5	20.5	20.5
IC	8	475	20.5	20.6	20.6	20.6	20.6	20.7	20.7	20.7	20.7	20.7
IC	8	485	20.8	20.8	20.8	20.8	20.8	20.9	20.9	20.9	21.4	21.4
IC	8	495	21.4	21.5	21.5	21.5	21.5	21.5	21.6	21.6	21.6	21.6
IC	8	505	21.6	21.7	21.7	21.7	21.7	21.8	21.8	21.8	21.8	21.8
IC	8	515	21.9	21.9	21.9	21.9	21.9	22.0	22.0	22.0	22.0	22.1
IC	8	525	23.3	23.3	23.3	23.4	23.4	23.4	23.4	23.4	23.5	23.5
IC	8	535	23.5	23.5	23.5	23.6	23.6	23.6	23.2	23.3	23.3	23.3
IC	8	545	23.3	23.3	23.4	23.4	23.4	23.4	23.5	23.5	23.5	23.5
IC	8	555	23.5	23.6								
BB	5	225	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	5	235	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BB	5	245	0.1	0.1	0.1	0.1	0.1					
BB	6	250	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BB	6	260	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
BB	6	270	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BB	6	280	0.2	0.2	0.2	0.2	0.2					
BB	7	285	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BB	7	295	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BB	7	305	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
BB	7	315	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BB	7	325	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BB	7	335	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BB	7	345	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BB	7	355	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BB	7	365	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9	0.9
BB	7	375	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BB	7	385	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BB	7	395	0.9	0.9	0.9	0.9	0.9	0.9	2.2	2.2	2.2	2.2

m^2/s FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	1	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
IC	2	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	2	49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	2	59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	2	69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	2	79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	2	89	0.0	0.0								
IC	3	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	3	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	3	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	3	121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
IC	4	129	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	139	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	149	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	159	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	179	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	189	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	199	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	209	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	219	0.0	0.0	0.0	0.0	0.0	0.0				
IC	8	405	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	415	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	425	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	435	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	445	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	465	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	475	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	485	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	495	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	505	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	515	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	525	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	535	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	545	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	555	0.0	0.0								
BB	5	225	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	5	235	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	5	245	0.0	0.0	0.0	0.0	0.0					
BB	6	250	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	6	260	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BB	6	270	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	6	280	0.0	0.0	0.0	0.0	0.0					
BB	7	285	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	295	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	305	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	315	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	325	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	335	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	345	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	355	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	365	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	375	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	385	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	395	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

INTERMEDIATE REPORT
Advective Velocity — LA-QUAL calibration for Gulf ICWW and Bayou Black
m/s — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	1	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
IC	2	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	2	49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	2	59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	2	69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	2	79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	2	89	0.0	0.0								
IC	3	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	3	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	3	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	3	121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
IC	4	129	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	139	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	149	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	159	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	179	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	189	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	199	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	209	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	4	219	0.0	0.0	0.0	0.0	0.0	0.0				
IC	8	405	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	415	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	425	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IC	8	435	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	445	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	465	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	475	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	485	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	495	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	505	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	515	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	525	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	535	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	545	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	8	555	0.0	0.0								
BB	5	225	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	5	235	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	5	245	0.0	0.0	0.0	0.0	0.0					
BB	6	250	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	6	260	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	6	270	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	6	280	0.0	0.0	0.0	0.0	0.0					
BB	7	285	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	295	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	305	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	315	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	325	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	335	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	345	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	355	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	365	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	375	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	385	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	7	395	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1

INTERMEDIATE REPORT
Depth LA-QUAL calibration for Gulf ICWW and Bayou Black
m FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
IC	1	11	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
IC	1	21	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
IC	1	31	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3		
IC	2	39	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
IC	2	49	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
IC	2	59	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
IC	2	69	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
IC	2	79	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4

IC	2	89	13.4	13.4								
IC	3	91	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	3	101	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	3	111	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	3	121	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8		
IC	4	129	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
IC	4	139	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
IC	4	149	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
IC	4	159	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
IC	4	169	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
IC	4	179	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
IC	4	189	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
IC	4	199	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
IC	4	209	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
IC	4	219	12.2	12.2	12.2	12.2	12.2	12.2				
IC	8	405	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	415	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	425	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	435	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	445	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	455	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	465	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	475	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	485	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	495	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	505	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	515	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	525	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	535	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	545	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
IC	8	555	12.8	12.8								
BB	5	225	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
BB	5	235	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
BB	5	245	4.6	4.6	4.6	4.6	4.6					
BB	6	250	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	6	260	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	6	270	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	6	280	1.2	1.2	1.2	1.2	1.2					
BB	7	285	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	7	295	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	7	305	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	7	315	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	7	325	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	7	335	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	7	345	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	7	355	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	7	365	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	7	375	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	7	385	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
BB	7	395	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

INTERMEDIATE REPORT

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

m — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5
IC	1	11	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5
IC	1	21	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5
IC	1	31	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5		
IC	2	39	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1
IC	2	49	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1
IC	2	59	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1
IC	2	69	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1
IC	2	79	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1
IC	2	89	209.1	209.1								
IC	3	91	395.3	395.3	395.3	395.3	395.3	395.3	395.3	395.3	395.3	395.3
IC	3	101	395.3	395.3	395.3	395.3	395.3	395.3	395.3	395.3	395.3	395.3
IC	3	111	395.3	395.3	395.3	395.3	395.3	395.3	395.3	395.3	395.3	395.3
IC	3	121	395.3	395.3	395.3	395.3	395.3	395.3	395.3	395.3		
IC	4	129	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
IC	4	139	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
IC	4	149	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
IC	4	159	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
IC	4	169	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
IC	4	179	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
IC	4	189	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
IC	4	199	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
IC	4	209	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
IC	4	219	190.0	190.0	190.0	190.0	190.0	190.0				
IC	8	405	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	415	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	425	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	435	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	445	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	455	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	465	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	475	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	485	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	495	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	505	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	515	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	525	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	535	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	545	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
IC	8	555	155.8	155.8								
BB	5	225	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7

BB	5	235	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7
BB	5	245	196.7	196.7	196.7	196.7	196.7					
BB	6	250	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	6	260	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	6	270	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	6	280	31.2	31.2	31.2	31.2	31.2					
BB	7	285	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	7	295	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	7	305	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	7	315	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	7	325	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	7	335	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	7	345	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	7	355	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	7	365	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	7	375	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	7	385	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
BB	7	395	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2

INTERMEDIATE REPORT
Cross-Sectional Area LA-QUAL calibration for Gulf ICWW and Bayou Black
m² FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2
IC	1	11	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2
IC	1	21	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2
IC	1	31	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2		
IC	2	39	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0
IC	2	49	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0
IC	2	59	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0
IC	2	69	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0
IC	2	79	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0
IC	2	89	2791.0	2791.0								
IC	3	91	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0
IC	3	101	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0
IC	3	111	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0
IC	3	121	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0	5048.0		
IC	4	129	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1
IC	4	139	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1
IC	4	149	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1
IC	4	159	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1
IC	4	169	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1
IC	4	179	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1
IC	4	189	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1
IC	4	199	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1
IC	4	209	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1

IC	4	219	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1				
IC	8	405	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	415	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	425	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	435	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	445	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	455	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	465	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	475	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	485	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	495	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	505	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	515	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	525	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	535	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	545	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
IC	8	555	1994.2	1994.2								
BB	5	225	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0
BB	5	235	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0
BB	5	245	899.0	899.0	899.0	899.0	899.0					
BB	6	250	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	6	260	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	6	270	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	6	280	36.2	36.2	36.2	36.2	36.2					
BB	7	285	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	7	295	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	7	305	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	7	315	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	7	325	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	7	335	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	7	345	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	7	355	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	7	365	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	7	375	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	7	385	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
BB	7	395	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2

INTERMEDIATE REPORT

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

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

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

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

INTERMEDIATE REPORT

BOD Decay Rate
per day

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

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

IC	8	535	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	545	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	555	0.26	0.26								
BB	5	225	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	5	235	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	5	245	0.26	0.26	0.26	0.26	0.26					
BB	6	250	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	6	260	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	6	270	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	6	280	0.26	0.26	0.26	0.26	0.26					
BB	7	285	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	295	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	305	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	315	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	325	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	335	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	345	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	355	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	365	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	375	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	385	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	395	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29

INTERMEDIATE REPORT
BOD Settling Rate
per day

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

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

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

INTERMEDIATE REPORT

Ammonia Decay Rate
per day

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27

IC	1	11	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	1	21	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	1	31	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28		
IC	2	39	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25
IC	2	49	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	2	59	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
IC	2	69	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27
IC	2	79	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28
IC	2	89	0.28	0.28								
IC	3	91	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	3	101	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	3	111	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.27	0.27	0.27
IC	3	121	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26		
IC	4	129	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	139	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	149	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	159	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	169	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	179	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	4	189	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	4	199	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	4	209	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	4	219	0.27	0.27	0.27	0.27	0.27	0.27				
IC	8	405	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26
IC	8	415	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	425	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	435	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	8	445	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	8	455	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	8	465	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24
IC	8	475	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
IC	8	485	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
IC	8	495	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
IC	8	505	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
IC	8	515	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24
IC	8	525	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23
IC	8	535	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24
IC	8	545	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
IC	8	555	0.24	0.24								
BB	5	225	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
BB	5	235	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
BB	5	245	0.45	0.45	0.45	0.45	0.45					
BB	6	250	0.45	0.45	0.44	0.43	0.43	0.43	0.42	0.42	0.42	0.42
BB	6	260	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
BB	6	270	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
BB	6	280	0.42	0.43	0.43	0.43	0.43					
BB	7	285	0.42	0.42	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
BB	7	295	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
BB	7	305	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
BB	7	315	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.41	0.41

BB	7	325	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
BB	7	335	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
BB	7	345	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.40
BB	7	355	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
BB	7	365	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.44	0.44
BB	7	375	0.44	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.41
BB	7	385	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.40	0.40
BB	7	395	0.40	0.39	0.39	0.39	0.39	0.39	0.36	0.36	0.36	0.36

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

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.05	2.05	2.05
IC	1	11	2.05	2.06	2.06	2.06	2.07	2.07	2.07	2.07	2.08	2.08
IC	1	21	2.08	2.08	2.09	2.09	2.09	2.10	2.10	2.10	2.10	2.11
IC	1	31	2.11	2.11	2.12	2.12	2.12	2.12	2.13	2.13		
IC	2	39	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
IC	2	49	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
IC	2	59	2.13	2.13	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14
IC	2	69	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14
IC	2	79	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14
IC	2	89	2.14	2.14								
IC	3	91	4.29	4.29	4.29	4.29	4.29	4.29	4.30	4.30	4.30	4.30
IC	3	101	4.30	4.30	4.30	4.31	4.31	4.31	4.31	4.31	4.31	4.31
IC	3	111	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.33	4.33	4.33
IC	3	121	4.33	4.33	4.33	4.33	4.34	4.34	4.34	4.34		
IC	4	129	4.77	4.77	4.77	4.77	4.77	4.77	4.76	4.76	4.76	4.76
IC	4	139	4.76	4.76	4.76	4.76	4.75	4.75	4.75	4.75	4.75	4.75
IC	4	149	4.75	4.75	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74
IC	4	159	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.72	4.72
IC	4	169	4.72	4.72	4.72	4.72	4.72	4.72	4.71	4.71	4.71	4.71
IC	4	179	4.71	4.71	4.71	4.71	4.70	4.70	4.70	4.70	4.70	4.70
IC	4	189	4.70	4.70	4.70	4.69	4.69	4.69	4.69	4.69	4.69	4.69
IC	4	199	4.69	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.67
IC	4	209	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.66	4.66	4.66
IC	4	219	4.66	4.66	4.66	4.66	4.66	4.65				
IC	8	405	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	415	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	425	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	435	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	445	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	455	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	465	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	475	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	485	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75

IC	8	495	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	505	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	515	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	525	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	535	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	545	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
IC	8	555	2.75	2.75								
BB	5	225	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
BB	5	235	1.50	1.50	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BB	5	245	1.49	1.49	1.49	1.49	1.49					
BB	6	250	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BB	6	260	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BB	6	270	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BB	6	280	1.49	1.49	1.49	1.49	1.49					
BB	7	285	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77
BB	7	295	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.76
BB	7	305	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	315	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	325	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	335	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	345	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	355	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	365	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.75	2.75
BB	7	375	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
BB	7	385	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
BB	7	395	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75

CONDENSED CAPSULE SUMMARY FOR ICWW

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3 NH3	CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.25500	31.20	0.00	6.70	3.70	0.00	1.30	0.10	20.00							
93.75	0.28132	31.22	0.00	6.32	2.55	0.00	1.30	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.03
93.50	0.30763	31.24	0.00	6.48	2.36	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.03
93.25	0.33395	31.26	0.00	6.59	2.32	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.03
93.00	0.36026	31.28	0.00	6.64	2.31	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.04
92.75	0.38658	31.31	0.00	6.67	2.31	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.04
92.50	0.41289	31.33	0.00	6.68	2.31	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.04
92.25	0.43921	31.35	0.00	6.69	2.30	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.04
92.00	0.46553	31.37	0.00	6.69	2.30	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.05
91.75	0.49184	31.39	0.00	6.69	2.30	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.05
91.50	0.51816	31.41	0.00	6.70	2.30	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.05
91.25	0.54447	31.43	0.00	6.70	2.29	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.05
91.00	0.57079	31.45	0.00	6.70	2.29	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.06
90.75	0.59711	31.47	0.00	6.70	2.29	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.27	2.06
90.50	0.62342	31.49	0.00	6.71	2.29	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.28	2.06
90.25	0.64974	31.52	0.00	6.71	2.29	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.28	2.07

90.00	0.67605	31.54	0.00	6.71	2.28	0.00	1.31	0.12	20.00	0.09	0.25	0.00	0.00	0.00	0.28	2.07
89.75	0.70237	31.56	0.00	6.72	2.28	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.07
89.50	0.72868	31.58	0.00	6.72	2.28	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.07
89.25	0.75500	31.60	0.00	6.72	2.28	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.08
89.00	0.78132	31.62	0.00	6.72	2.28	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.08
88.75	0.80763	31.64	0.00	6.73	2.27	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.08
88.50	0.83395	31.66	0.00	6.73	2.27	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.08
88.25	0.86026	31.68	0.00	6.73	2.27	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.09
88.00	0.88658	31.71	0.00	6.74	2.27	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.09
87.75	0.91289	31.73	0.00	6.74	2.27	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.09
87.50	0.93921	31.75	0.00	6.74	2.26	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.10
87.25	0.96553	31.77	0.00	6.74	2.26	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.10
87.00	0.99184	31.79	0.00	6.75	2.26	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.10
86.75	1.01816	31.81	0.00	6.75	2.26	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.10
86.50	1.04447	31.83	0.00	6.75	2.25	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.11
86.25	1.07079	31.85	0.00	6.75	2.25	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.11
86.00	1.09711	31.87	0.00	6.76	2.25	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.11
85.75	1.12342	31.89	0.00	6.76	2.25	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.12
85.50	1.14974	31.92	0.00	6.76	2.25	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.12
85.25	1.17605	31.94	0.00	6.77	2.24	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.12
85.00	1.20237	31.96	0.00	6.77	2.24	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.12
84.75	1.22868	31.98	0.00	6.77	2.24	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.13
84.50	1.25500	32.00	0.00	6.77	2.24	0.00	1.30	0.12	20.00	0.09	0.26	0.00	0.00	0.00	0.28	2.13
84.25	49.17653	32.00	0.00	4.39	4.82	0.00	1.59	0.10	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.13
84.00	49.19297	32.00	0.00	4.32	4.72	0.00	1.58	0.10	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.13
83.75	49.20942	32.01	0.00	4.26	4.62	0.00	1.58	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.13
83.50	49.22586	32.01	0.00	4.20	4.53	0.00	1.58	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.13
83.25	49.24230	32.01	0.00	4.15	4.44	0.00	1.57	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.13
83.00	49.25874	32.01	0.00	4.10	4.36	0.00	1.57	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.13
82.75	49.27518	32.01	0.00	4.06	4.27	0.00	1.56	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.13
82.50	49.29162	32.02	0.00	4.01	4.19	0.00	1.56	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.13
82.25	49.30806	32.02	0.00	3.98	4.12	0.00	1.56	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
82.00	49.32450	32.02	0.00	3.94	4.05	0.00	1.55	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
81.75	49.34095	32.02	0.00	3.91	3.98	0.00	1.55	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
81.50	49.35739	32.02	0.00	3.88	3.91	0.00	1.55	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
81.25	49.37383	32.03	0.00	3.85	3.85	0.00	1.54	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
81.00	49.39027	32.03	0.00	3.83	3.79	0.00	1.54	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
80.75	49.40671	32.03	0.00	3.81	3.73	0.00	1.53	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
80.50	49.42315	32.03	0.00	3.79	3.67	0.00	1.53	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
80.25	49.43959	32.03	0.00	3.77	3.62	0.00	1.53	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
80.00	49.45604	32.03	0.00	3.76	3.56	0.00	1.52	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
79.75	12.99668	32.04	0.00	3.75	3.52	0.00	1.52	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
79.50	13.01312	32.04	0.00	3.72	3.35	0.00	1.51	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
79.25	13.02956	32.04	0.00	3.72	3.21	0.00	1.49	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
79.00	13.04600	32.04	0.00	3.74	3.09	0.00	1.48	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.13
78.75	13.06245	32.04	0.00	3.77	2.99	0.00	1.47	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.14
78.50	13.07889	32.05	0.00	3.82	2.90	0.00	1.45	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.14
78.25	13.09533	32.05	0.00	3.87	2.83	0.00	1.44	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.14
78.00	13.11177	32.05	0.00	3.93	2.76	0.00	1.43	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.25	2.14
77.75	13.12822	32.05	0.00	3.99	2.70	0.00	1.42	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.14

77.50	13.14466	32.05	0.00	4.06	2.66	0.00	1.41	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.14
77.25	13.16110	32.06	0.00	4.14	2.61	0.00	1.39	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.14
77.00	13.17754	32.06	0.00	4.21	2.58	0.00	1.38	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.14
76.75	13.19398	32.06	0.00	4.29	2.55	0.00	1.37	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.14
76.50	13.21043	32.06	0.00	4.37	2.52	0.00	1.36	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.14
76.25	13.22687	32.06	0.00	4.45	2.50	0.00	1.35	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.14
76.00	13.24331	32.07	0.00	4.53	2.48	0.00	1.34	0.14	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.14
75.75	13.25975	32.07	0.00	4.60	2.46	0.00	1.33	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.26	2.14
75.50	13.27620	32.07	0.00	4.68	2.45	0.00	1.32	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.27	2.14
75.25	13.29264	32.07	0.00	4.76	2.43	0.00	1.31	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.27	2.14
75.00	13.30908	32.07	0.00	4.84	2.42	0.00	1.30	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.27	2.14
74.75	13.32552	32.08	0.00	4.91	2.41	0.00	1.29	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.27	2.14
74.50	13.34197	32.08	0.00	4.99	2.41	0.00	1.28	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.27	2.14
74.25	13.35841	32.08	0.00	5.06	2.40	0.00	1.27	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.27	2.14
74.00	13.37485	32.08	0.00	5.13	2.39	0.00	1.26	0.13	20.00	0.07	0.26	0.00	0.00	0.00	0.27	2.14
73.75	13.39129	32.08	0.00	5.20	2.39	0.00	1.25	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.27	2.14
73.50	13.40773	32.08	0.00	5.27	2.38	0.00	1.24	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.27	2.14
73.25	13.42418	32.09	0.00	5.34	2.38	0.00	1.23	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.27	2.14
73.00	13.44062	32.09	0.00	5.40	2.38	0.00	1.23	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.27	2.14
72.75	13.45706	32.09	0.00	5.47	2.37	0.00	1.22	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.27	2.14
72.50	13.47350	32.09	0.00	5.53	2.37	0.00	1.21	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.28	2.14
72.25	13.48995	32.09	0.00	5.59	2.37	0.00	1.20	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.28	2.14
72.00	13.50639	32.10	0.00	5.65	2.37	0.00	1.19	0.12	20.00	0.07	0.26	0.00	0.00	0.00	0.28	2.14
71.75	15.08003	32.10	0.00	5.75	2.71	0.00	1.21	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.28	2.14
71.50	15.09647	32.10	0.00	5.76	2.67	0.00	1.20	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.28	2.14
71.25	15.11292	32.11	0.00	5.63	2.61	0.00	1.19	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.28	4.29
71.00	15.12937	32.11	0.00	5.52	2.57	0.00	1.19	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.28	4.29
70.75	15.14581	32.12	0.00	5.43	2.54	0.00	1.19	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.29
70.50	15.16226	32.12	0.00	5.35	2.51	0.00	1.18	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.29
70.25	15.17871	32.13	0.00	5.28	2.49	0.00	1.18	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.29
70.00	15.19516	32.13	0.00	5.22	2.47	0.00	1.17	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.29
69.75	15.21160	32.14	0.00	5.16	2.46	0.00	1.17	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.30
69.50	15.22805	32.14	0.00	5.12	2.45	0.00	1.16	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.30
69.25	15.24450	32.15	0.00	5.08	2.44	0.00	1.16	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.30
69.00	15.26094	32.15	0.00	5.04	2.43	0.00	1.16	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.30
68.75	15.27739	32.16	0.00	5.01	2.43	0.00	1.15	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.30
68.50	15.29384	32.16	0.00	4.98	2.42	0.00	1.15	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.30
68.25	15.31028	32.17	0.00	4.95	2.42	0.00	1.14	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.30
68.00	15.32673	32.17	0.00	4.93	2.42	0.00	1.14	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.31
67.75	15.34318	32.18	0.00	4.91	2.41	0.00	1.14	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.31
67.50	15.35963	32.18	0.00	4.89	2.41	0.00	1.13	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.31
67.25	15.37607	32.19	0.00	4.87	2.41	0.00	1.13	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.31
67.00	15.39252	32.19	0.00	4.86	2.41	0.00	1.13	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.31
66.75	15.40897	32.20	0.00	4.84	2.41	0.00	1.12	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.31
66.50	15.42541	32.21	0.00	4.83	2.40	0.00	1.12	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.31
66.25	15.44186	32.21	0.00	4.82	2.40	0.00	1.12	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.32
66.00	15.45831	32.22	0.00	4.81	2.40	0.00	1.12	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.32
65.75	15.47476	32.22	0.00	4.80	2.40	0.00	1.11	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.32
65.50	15.49120	32.23	0.00	4.79	2.40	0.00	1.11	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.32
65.25	15.50765	32.23	0.00	4.79	2.40	0.00	1.11	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.32

65.00	15.52410	32.24	0.00	4.78	2.40	0.00	1.10	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.32
64.75	30.82940	32.24	0.00	5.45	4.07	0.00	1.25	0.10	20.00	0.07	0.26	0.00	0.00	0.00	0.28	4.32
64.50	30.84585	32.25	0.00	5.24	3.89	0.00	1.24	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.33
64.25	30.86230	32.25	0.00	5.06	3.72	0.00	1.24	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.33
64.00	30.87874	32.26	0.00	4.91	3.57	0.00	1.24	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.33
63.75	30.89519	32.26	0.00	4.77	3.44	0.00	1.24	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.33
63.50	30.91164	32.27	0.00	4.66	3.33	0.00	1.23	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.33
63.25	30.92809	32.27	0.00	4.55	3.22	0.00	1.23	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.33
63.00	30.94453	32.28	0.00	4.47	3.13	0.00	1.23	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.27	4.33
62.75	30.96098	32.28	0.00	4.39	3.05	0.00	1.22	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.26	4.34
62.50	30.97743	32.29	0.00	4.33	2.97	0.00	1.22	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.26	4.34
62.25	30.99387	32.29	0.00	4.28	2.91	0.00	1.22	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.26	4.34
62.00	31.01032	32.30	0.00	4.23	2.85	0.00	1.22	0.11	20.00	0.07	0.26	0.00	0.00	0.00	0.26	4.34
61.75	31.02676	32.30	0.00	4.21	2.82	0.00	1.21	0.11	20.04	0.07	0.26	0.00	0.00	0.00	0.26	4.77
61.50	31.04320	32.29	0.00	4.18	2.79	0.00	1.21	0.11	20.08	0.07	0.26	0.00	0.00	0.00	0.26	4.77
61.25	31.05963	32.29	0.00	4.16	2.76	0.00	1.21	0.11	20.12	0.07	0.26	0.00	0.00	0.00	0.26	4.77
61.00	31.07607	32.28	0.00	4.14	2.74	0.00	1.21	0.11	20.17	0.07	0.26	0.00	0.00	0.00	0.26	4.77
60.75	31.09251	32.28	0.00	4.12	2.72	0.00	1.21	0.11	20.21	0.07	0.26	0.00	0.00	0.00	0.26	4.77
60.50	31.10895	32.27	0.00	4.11	2.69	0.00	1.21	0.12	20.25	0.07	0.26	0.00	0.00	0.00	0.26	4.77
60.25	31.12538	32.27	0.00	4.10	2.67	0.00	1.21	0.12	20.29	0.07	0.26	0.00	0.00	0.00	0.26	4.76
60.00	31.14182	32.27	0.00	4.08	2.65	0.00	1.21	0.12	20.33	0.07	0.26	0.00	0.00	0.00	0.26	4.76
59.75	31.15826	32.26	0.00	4.07	2.63	0.00	1.21	0.12	20.38	0.07	0.26	0.00	0.00	0.00	0.26	4.76
59.50	31.17470	32.26	0.00	4.07	2.61	0.00	1.20	0.12	20.42	0.07	0.26	0.00	0.00	0.00	0.26	4.76
59.25	31.19113	32.25	0.00	4.06	2.60	0.00	1.20	0.12	20.46	0.07	0.26	0.00	0.00	0.00	0.26	4.76
59.00	31.20757	32.25	0.00	4.05	2.58	0.00	1.20	0.12	20.50	0.07	0.26	0.00	0.00	0.00	0.26	4.76
58.75	31.22401	32.25	0.00	4.05	2.56	0.00	1.20	0.12	20.54	0.07	0.26	0.00	0.00	0.00	0.26	4.76
58.50	31.24045	32.24	0.00	4.05	2.55	0.00	1.20	0.12	20.58	0.07	0.26	0.00	0.00	0.00	0.26	4.76
58.25	31.25688	32.24	0.00	4.05	2.54	0.00	1.20	0.12	20.62	0.07	0.26	0.00	0.00	0.00	0.26	4.75
58.00	31.27332	32.23	0.00	4.05	2.52	0.00	1.20	0.12	20.67	0.07	0.26	0.00	0.00	0.00	0.26	4.75
57.75	31.28976	32.23	0.00	4.05	2.51	0.00	1.20	0.12	20.71	0.07	0.26	0.00	0.00	0.00	0.26	4.75
57.50	31.30620	32.22	0.00	4.05	2.50	0.00	1.20	0.12	20.75	0.07	0.26	0.00	0.00	0.00	0.26	4.75
57.25	31.32263	32.22	0.00	4.05	2.49	0.00	1.20	0.12	20.79	0.07	0.26	0.00	0.00	0.00	0.26	4.75
57.00	31.33907	32.22	0.00	4.05	2.48	0.00	1.19	0.12	20.83	0.07	0.26	0.00	0.00	0.00	0.26	4.75
56.75	31.35551	32.21	0.00	4.06	2.47	0.00	1.19	0.12	20.88	0.07	0.26	0.00	0.00	0.00	0.26	4.75
56.50	31.37195	32.21	0.00	4.06	2.46	0.00	1.19	0.12	20.92	0.07	0.26	0.00	0.00	0.00	0.26	4.75
56.25	31.38838	32.20	0.00	4.07	2.45	0.00	1.19	0.12	20.96	0.07	0.26	0.00	0.00	0.00	0.26	4.74
56.00	31.40482	32.20	0.00	4.08	2.44	0.00	1.19	0.12	21.00	0.07	0.26	0.00	0.00	0.00	0.26	4.74
55.75	31.42126	32.20	0.00	4.08	2.44	0.00	1.19	0.12	21.04	0.07	0.26	0.00	0.00	0.00	0.26	4.74
55.50	31.43770	32.19	0.00	4.09	2.43	0.00	1.19	0.12	21.08	0.07	0.26	0.00	0.00	0.00	0.26	4.74
55.25	31.45413	32.19	0.00	4.10	2.42	0.00	1.19	0.12	21.12	0.07	0.26	0.00	0.00	0.00	0.26	4.74
55.00	31.47057	32.18	0.00	4.11	2.42	0.00	1.19	0.12	21.17	0.07	0.26	0.00	0.00	0.00	0.26	4.74
54.75	31.48701	32.18	0.00	4.12	2.41	0.00	1.19	0.12	21.21	0.07	0.26	0.00	0.00	0.00	0.26	4.74
54.50	31.50345	32.17	0.00	4.13	2.40	0.00	1.18	0.12	21.25	0.07	0.26	0.00	0.00	0.00	0.26	4.74
54.25	31.51988	32.17	0.00	4.14	2.40	0.00	1.18	0.12	21.29	0.07	0.26	0.00	0.00	0.00	0.26	4.73
54.00	31.53632	32.17	0.00	4.15	2.39	0.00	1.18	0.12	21.33	0.07	0.26	0.00	0.00	0.00	0.26	4.73
53.75	31.55276	32.16	0.00	4.17	2.39	0.00	1.18	0.12	21.38	0.07	0.26	0.00	0.00	0.00	0.26	4.73
53.50	31.56920	32.16	0.00	4.18	2.38	0.00	1.18	0.12	21.42	0.07	0.26	0.00	0.00	0.00	0.26	4.73
53.25	31.58563	32.15	0.00	4.19	2.38	0.00	1.18	0.12	21.46	0.07	0.26	0.00	0.00	0.00	0.26	4.73
53.00	31.60207	32.15	0.00	4.21	2.38	0.00	1.18	0.12	21.50	0.07	0.26	0.00	0.00	0.00	0.26	4.73
52.75	31.61851	32.15	0.00	4.22	2.37	0.00	1.18	0.12	21.54	0.07	0.26	0.00	0.00	0.00	0.26	4.73

52.50	31.63495	32.14	0.00	4.23	2.37	0.00	1.18	0.12	21.58	0.07	0.26	0.00	0.00	0.00	0.26	4.73
52.25	31.65138	32.14	0.00	4.25	2.37	0.00	1.18	0.12	21.62	0.07	0.26	0.00	0.00	0.00	0.26	4.72
52.00	31.66782	32.13	0.00	4.26	2.36	0.00	1.18	0.12	21.67	0.07	0.26	0.00	0.00	0.00	0.26	4.72
51.75	31.68426	32.13	0.00	4.28	2.36	0.00	1.17	0.12	21.71	0.07	0.26	0.00	0.00	0.00	0.26	4.72
51.50	31.70070	32.12	0.00	4.29	2.36	0.00	1.17	0.12	21.75	0.07	0.26	0.00	0.00	0.00	0.26	4.72
51.25	31.71713	32.12	0.00	4.31	2.35	0.00	1.17	0.12	21.79	0.07	0.26	0.00	0.00	0.00	0.26	4.72
51.00	31.73357	32.12	0.00	4.33	2.35	0.00	1.17	0.12	21.83	0.07	0.26	0.00	0.00	0.00	0.26	4.72
50.75	31.75001	32.11	0.00	4.34	2.35	0.00	1.17	0.12	21.88	0.07	0.26	0.00	0.00	0.00	0.26	4.72
50.50	31.76645	32.11	0.00	4.36	2.35	0.00	1.17	0.12	21.92	0.07	0.26	0.00	0.00	0.00	0.26	4.72
50.25	31.78288	32.10	0.00	4.38	2.35	0.00	1.17	0.12	21.96	0.07	0.26	0.00	0.00	0.00	0.26	4.71
50.00	31.79932	32.10	0.00	4.39	2.34	0.00	1.17	0.12	22.00	0.07	0.26	0.00	0.00	0.00	0.26	4.71
49.75	31.81576	32.10	0.00	4.41	2.34	0.00	1.17	0.12	22.04	0.07	0.26	0.00	0.00	0.00	0.26	4.71
49.50	31.83220	32.09	0.00	4.43	2.34	0.00	1.17	0.12	22.08	0.07	0.26	0.00	0.00	0.00	0.26	4.71
49.25	31.84863	32.09	0.00	4.45	2.34	0.00	1.17	0.12	22.12	0.07	0.26	0.00	0.00	0.00	0.26	4.71
49.00	31.86507	32.08	0.00	4.46	2.34	0.00	1.17	0.12	22.17	0.07	0.26	0.00	0.00	0.00	0.26	4.71
48.75	35.83114	32.08	0.00	5.17	2.91	0.00	1.19	0.11	22.21	0.07	0.26	0.00	0.00	0.00	0.27	4.71
48.50	35.84758	32.08	0.00	5.15	2.88	0.00	1.19	0.11	22.25	0.07	0.26	0.00	0.00	0.00	0.27	4.71
48.25	35.86401	32.07	0.00	5.14	2.85	0.00	1.19	0.11	22.29	0.07	0.26	0.00	0.00	0.00	0.27	4.70
48.00	35.88045	32.07	0.00	5.12	2.83	0.00	1.19	0.11	22.33	0.07	0.26	0.00	0.00	0.00	0.27	4.70
47.75	35.89689	32.06	0.00	5.11	2.80	0.00	1.19	0.11	22.38	0.07	0.26	0.00	0.00	0.00	0.27	4.70
47.50	35.91333	32.06	0.00	5.09	2.78	0.00	1.19	0.11	22.42	0.07	0.26	0.00	0.00	0.00	0.27	4.70
47.25	35.92976	32.05	0.00	5.08	2.76	0.00	1.19	0.11	22.46	0.07	0.26	0.00	0.00	0.00	0.27	4.70
47.00	35.94620	32.05	0.00	5.07	2.74	0.00	1.19	0.11	22.50	0.07	0.26	0.00	0.00	0.00	0.27	4.70
46.75	35.96264	32.05	0.00	5.07	2.72	0.00	1.19	0.11	22.54	0.07	0.26	0.00	0.00	0.00	0.27	4.70
46.50	35.97908	32.04	0.00	5.06	2.70	0.00	1.19	0.11	22.58	0.07	0.26	0.00	0.00	0.00	0.27	4.70
46.25	35.99551	32.04	0.00	5.05	2.68	0.00	1.19	0.11	22.62	0.07	0.26	0.00	0.00	0.00	0.27	4.70
46.00	36.01195	32.03	0.00	5.05	2.67	0.00	1.18	0.11	22.67	0.07	0.26	0.00	0.00	0.00	0.27	4.69
45.75	36.02839	32.03	0.00	5.05	2.65	0.00	1.18	0.11	22.71	0.07	0.26	0.00	0.00	0.00	0.27	4.69
45.50	36.04483	32.02	0.00	5.05	2.63	0.00	1.18	0.11	22.75	0.07	0.26	0.00	0.00	0.00	0.27	4.69
45.25	36.06126	32.02	0.00	5.05	2.62	0.00	1.18	0.11	22.79	0.07	0.26	0.00	0.00	0.00	0.27	4.69
45.00	36.07770	32.02	0.00	5.05	2.60	0.00	1.18	0.11	22.83	0.07	0.26	0.00	0.00	0.00	0.27	4.69
44.75	36.09414	32.01	0.00	5.05	2.59	0.00	1.18	0.11	22.88	0.07	0.26	0.00	0.00	0.00	0.27	4.69
44.50	36.11058	32.01	0.00	5.05	2.58	0.00	1.18	0.11	22.92	0.07	0.26	0.00	0.00	0.00	0.27	4.69
44.25	36.12701	32.00	0.00	5.06	2.57	0.00	1.18	0.11	22.96	0.07	0.26	0.00	0.00	0.00	0.27	4.69
44.00	36.14345	32.00	0.00	5.06	2.56	0.00	1.18	0.11	23.00	0.07	0.26	0.00	0.00	0.00	0.27	4.68
43.75	36.15989	32.00	0.00	5.07	2.54	0.00	1.18	0.11	23.04	0.07	0.26	0.00	0.00	0.00	0.27	4.68
43.50	36.17633	31.99	0.00	5.07	2.53	0.00	1.18	0.11	23.08	0.07	0.26	0.00	0.00	0.00	0.27	4.68
43.25	36.19276	31.99	0.00	5.08	2.52	0.00	1.18	0.11	23.12	0.07	0.26	0.00	0.00	0.00	0.27	4.68
43.00	36.20920	31.98	0.00	5.09	2.52	0.00	1.17	0.11	23.17	0.07	0.26	0.00	0.00	0.00	0.27	4.68
42.75	36.22564	31.98	0.00	5.09	2.51	0.00	1.17	0.11	23.21	0.07	0.26	0.00	0.00	0.00	0.27	4.68
42.50	36.24208	31.98	0.00	5.10	2.50	0.00	1.17	0.11	23.25	0.07	0.26	0.00	0.00	0.00	0.27	4.68
42.25	36.25851	31.97	0.00	5.11	2.49	0.00	1.17	0.11	23.29	0.07	0.26	0.00	0.00	0.00	0.27	4.68
42.00	36.27495	31.97	0.00	5.12	2.48	0.00	1.17	0.11	23.33	0.07	0.26	0.00	0.00	0.00	0.27	4.67
41.75	36.29139	31.96	0.00	5.13	2.48	0.00	1.17	0.11	23.38	0.07	0.26	0.00	0.00	0.00	0.27	4.67
41.50	36.30783	31.96	0.00	5.14	2.47	0.00	1.17	0.11	23.42	0.07	0.26	0.00	0.00	0.00	0.27	4.67
41.25	36.32426	31.95	0.00	5.16	2.46	0.00	1.17	0.11	23.46	0.07	0.26	0.00	0.00	0.00	0.27	4.67
41.00	36.34070	31.95	0.00	5.17	2.46	0.00	1.17	0.11	23.50	0.07	0.26	0.00	0.00	0.00	0.27	4.67
40.75	36.35714	31.95	0.00	5.18	2.45	0.00	1.17	0.11	23.54	0.07	0.26	0.00	0.00	0.00	0.27	4.67
40.50	36.37358	31.94	0.00	5.19	2.44	0.00	1.17	0.11	23.58	0.07	0.26	0.00	0.00	0.00	0.27	4.67
40.25	36.39001	31.94	0.00	5.21	2.44	0.00	1.17	0.11	23.62	0.07	0.26	0.00	0.00	0.00	0.27	4.67

40.00	36.40645	31.93	0.00	5.22	2.43	0.00	1.17	0.11	23.67	0.07	0.26	0.00	0.00	0.00	0.27	4.66
39.75	36.42289	31.93	0.00	5.23	2.43	0.00	1.17	0.11	23.71	0.07	0.26	0.00	0.00	0.00	0.27	4.66
39.50	36.43933	31.92	0.00	5.25	2.42	0.00	1.16	0.11	23.75	0.07	0.26	0.00	0.00	0.00	0.27	4.66
39.25	36.45576	31.92	0.00	5.26	2.42	0.00	1.16	0.11	23.79	0.07	0.26	0.00	0.00	0.00	0.27	4.66
39.00	36.47220	31.92	0.00	5.28	2.42	0.00	1.16	0.11	23.83	0.07	0.26	0.00	0.00	0.00	0.27	4.66
38.75	12.67764	31.91	0.00	5.29	2.41	0.00	1.16	0.11	23.88	0.07	0.26	0.00	0.00	0.00	0.27	4.66
38.50	12.69408	31.91	0.00	5.34	2.40	0.00	1.16	0.11	23.92	0.07	0.26	0.00	0.00	0.00	0.27	4.66
38.25	12.71054	31.90	0.00	5.39	2.39	0.00	1.16	0.11	23.96	0.07	0.26	0.00	0.00	0.00	0.27	4.66
38.00	12.72698	31.90	0.00	5.43	2.39	0.00	1.16	0.11	24.00	0.07	0.26	0.00	0.00	0.00	0.27	4.65
37.75	14.96897	31.90	0.00	5.10	3.15	0.00	1.20	0.11	24.00	0.07	0.26	0.00	0.00	0.00	0.27	2.75
37.50	14.99039	31.90	0.00	5.13	3.22	0.00	1.20	0.11	24.00	0.07	0.26	0.00	0.00	0.00	0.27	2.75
37.25	15.01182	31.90	0.00	5.14	3.27	0.00	1.20	0.11	24.00	0.07	0.26	0.00	0.00	0.00	0.27	2.75
37.00	15.03324	31.90	0.00	5.15	3.33	0.00	1.20	0.11	24.00	0.07	0.26	0.00	0.00	0.00	0.27	2.75
36.75	15.05466	31.90	0.00	5.16	3.38	0.00	1.19	0.11	24.00	0.07	0.26	0.00	0.00	0.00	0.27	2.75
36.50	15.07608	31.90	0.00	5.16	3.42	0.00	1.19	0.11	24.00	0.07	0.26	0.00	0.00	0.00	0.27	2.75
36.25	15.09750	31.90	0.00	5.15	3.46	0.00	1.19	0.11	24.00	0.07	0.26	0.00	0.00	0.00	0.27	2.75
36.00	15.11892	31.90	0.00	5.15	3.50	0.00	1.19	0.11	24.00	0.07	0.26	0.00	0.00	0.00	0.27	2.75
35.75	15.59335	31.90	0.00	4.86	3.99	0.00	1.23	0.11	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
35.50	15.61478	31.90	0.00	4.81	3.98	0.00	1.23	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
35.25	15.63620	31.90	0.00	4.77	3.97	0.00	1.22	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
35.00	15.65762	31.90	0.00	4.73	3.96	0.00	1.22	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
34.75	15.67905	31.90	0.00	4.69	3.95	0.00	1.22	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
34.50	15.70047	31.90	0.00	4.66	3.94	0.00	1.22	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
34.25	15.72189	31.90	0.00	4.62	3.94	0.00	1.22	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
34.00	15.74331	31.90	0.00	4.59	3.93	0.00	1.22	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
33.75	15.76474	31.90	0.00	4.56	3.92	0.00	1.22	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
33.50	15.78616	31.90	0.00	4.53	3.92	0.00	1.21	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
33.25	15.80758	31.90	0.00	4.50	3.91	0.00	1.21	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
33.00	15.82900	31.90	0.00	4.47	3.91	0.00	1.21	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
32.75	15.85042	31.90	0.00	4.44	3.90	0.00	1.21	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
32.50	15.87184	31.90	0.00	4.42	3.90	0.00	1.21	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
32.25	15.89326	31.90	0.00	4.39	3.90	0.00	1.21	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
32.00	15.91469	31.90	0.00	4.37	3.89	0.00	1.21	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
31.75	15.93611	31.90	0.00	4.35	3.89	0.00	1.21	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
31.50	15.95753	31.90	0.00	4.32	3.89	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
31.25	15.97895	31.90	0.00	4.30	3.89	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
31.00	16.00037	31.90	0.00	4.28	3.88	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
30.75	16.02179	31.90	0.00	4.26	3.88	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
30.50	16.04321	31.90	0.00	4.24	3.88	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.26	2.75
30.25	16.06463	31.90	0.00	4.23	3.88	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
30.00	16.08606	31.90	0.00	4.21	3.88	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
29.75	16.10748	31.90	0.00	4.19	3.87	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
29.50	16.12890	31.90	0.00	4.17	3.87	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
29.25	16.15032	31.90	0.00	4.16	3.87	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
29.00	16.17174	31.90	0.00	4.14	3.87	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
28.75	16.19316	31.90	0.00	4.13	3.87	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
28.50	16.21458	31.90	0.00	4.11	3.87	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
28.25	16.23601	31.90	0.00	4.10	3.87	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
28.00	16.25743	31.90	0.00	4.09	3.87	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
27.75	16.27885	31.90	0.00	4.07	3.87	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75

27.50	16.30027	31.90	0.00	4.06	3.87	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
27.25	16.32169	31.90	0.00	4.05	3.87	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
27.00	16.34311	31.90	0.00	4.04	3.87	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
26.75	16.36453	31.90	0.00	4.03	3.87	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
26.50	16.38596	31.90	0.00	4.01	3.86	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
26.25	16.40738	31.90	0.00	4.00	3.86	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
26.00	16.42880	31.90	0.00	3.99	3.86	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
25.75	16.45022	31.90	0.00	3.98	3.86	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
25.50	16.47164	31.90	0.00	3.97	3.86	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
25.25	16.49306	31.90	0.00	3.96	3.86	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
25.00	16.51448	31.90	0.00	3.96	3.86	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
24.75	16.53591	31.90	0.00	3.95	3.86	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
24.50	16.55733	31.90	0.00	3.94	3.86	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
24.25	16.57875	31.90	0.00	3.93	3.86	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
24.00	16.60017	31.90	0.00	3.92	3.86	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
23.75	16.62164	31.90	0.00	3.91	3.86	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
23.50	16.64306	31.90	0.00	3.91	3.86	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
23.25	16.66448	31.90	0.00	3.90	3.86	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
23.00	16.68591	31.90	0.00	3.89	3.86	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
22.75	16.70733	31.90	0.00	3.88	3.86	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
22.50	16.72875	31.90	0.00	3.88	3.86	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
22.25	16.75361	31.90	0.00	3.87	3.87	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
22.00	16.77503	31.90	0.00	3.86	3.87	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
21.75	20.42048	31.90	0.00	3.79	4.97	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
21.50	20.44190	31.90	0.00	3.71	4.89	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
21.25	20.46333	31.90	0.00	3.64	4.82	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.25	2.75
21.00	20.48475	31.90	0.00	3.58	4.75	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
20.75	20.50617	31.90	0.00	3.52	4.69	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
20.50	20.52759	31.90	0.00	3.47	4.63	0.00	1.20	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
20.25	20.54901	31.90	0.00	3.42	4.58	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
20.00	20.57043	31.90	0.00	3.38	4.53	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
19.75	20.59185	31.90	0.00	3.34	4.48	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
19.50	20.61328	31.90	0.00	3.31	4.44	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
19.25	20.63470	31.90	0.00	3.27	4.40	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
19.00	20.65612	31.90	0.00	3.25	4.36	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
18.75	20.67754	31.90	0.00	3.22	4.33	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
18.50	20.69896	31.90	0.00	3.20	4.30	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
18.25	20.72038	31.90	0.00	3.18	4.27	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
18.00	20.74180	31.90	0.00	3.16	4.24	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
17.75	20.76323	31.90	0.00	3.15	4.21	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
17.50	20.78465	31.90	0.00	3.13	4.19	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
17.25	20.80607	31.90	0.00	3.12	4.17	0.00	1.19	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
17.00	20.82749	31.90	0.00	3.11	4.15	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
16.75	20.84891	31.90	0.00	3.10	4.13	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
16.50	20.87033	31.90	0.00	3.10	4.11	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
16.25	20.89175	31.90	0.00	3.09	4.09	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
16.00	20.91318	31.90	0.00	3.09	4.08	0.00	1.18	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
15.75	21.38760	31.90	0.00	3.08	4.15	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
15.50	21.40902	31.90	0.00	3.07	4.13	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
15.25	21.43044	31.90	0.00	3.07	4.12	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75

15.00	21.45186	31.90	0.00	3.06	4.10	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
14.75	21.47328	31.90	0.00	3.06	4.08	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
14.50	21.49470	31.90	0.00	3.05	4.07	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
14.25	21.51612	31.90	0.00	3.05	4.06	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
14.00	21.53755	31.90	0.00	3.05	4.04	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
13.75	21.55897	31.90	0.00	3.05	4.03	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
13.50	21.58039	31.90	0.00	3.05	4.02	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
13.25	21.60181	31.90	0.00	3.05	4.01	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
13.00	21.62323	31.90	0.00	3.05	4.00	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
12.75	21.64465	31.90	0.00	3.05	3.99	0.00	1.17	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
12.50	21.66607	31.90	0.00	3.06	3.98	0.00	1.17	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
12.25	21.68750	31.90	0.00	3.06	3.97	0.00	1.17	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
12.00	21.70892	31.90	0.00	3.06	3.97	0.00	1.17	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
11.75	21.73034	31.90	0.00	3.07	3.96	0.00	1.16	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
11.50	21.75176	31.90	0.00	3.07	3.95	0.00	1.16	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
11.25	21.77318	31.90	0.00	3.08	3.95	0.00	1.16	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
11.00	21.79460	31.90	0.00	3.08	3.94	0.00	1.16	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
10.75	21.81602	31.90	0.00	3.09	3.94	0.00	1.16	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
10.50	21.83745	31.90	0.00	3.09	3.93	0.00	1.16	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
10.25	21.85887	31.90	0.00	3.10	3.93	0.00	1.16	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
10.00	21.88029	31.90	0.00	3.10	3.92	0.00	1.16	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
9.75	21.90171	31.90	0.00	3.11	3.92	0.00	1.16	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
9.50	21.92313	31.90	0.00	3.11	3.91	0.00	1.16	0.13	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
9.25	21.94455	31.90	0.00	3.12	3.91	0.00	1.16	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
9.00	21.96597	31.90	0.00	3.13	3.91	0.00	1.16	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
8.75	21.98740	31.90	0.00	3.13	3.90	0.00	1.16	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
8.50	22.00882	31.90	0.00	3.14	3.90	0.00	1.16	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
8.25	22.03024	31.90	0.00	3.14	3.90	0.00	1.16	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
8.00	22.05166	31.90	0.00	3.15	3.90	0.00	1.16	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
7.75	23.29053	31.90	0.00	3.15	4.13	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
7.50	23.31195	31.90	0.00	3.14	4.11	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
7.25	23.33337	31.90	0.00	3.14	4.10	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
7.00	23.35480	31.90	0.00	3.13	4.08	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
6.75	23.37622	31.90	0.00	3.13	4.07	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
6.50	23.39764	31.90	0.00	3.13	4.06	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
6.25	23.41906	31.90	0.00	3.12	4.05	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
6.00	23.44048	31.90	0.00	3.12	4.03	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
5.75	23.46190	31.90	0.00	3.12	4.02	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
5.50	23.48332	31.90	0.00	3.12	4.01	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
5.25	23.50475	31.90	0.00	3.12	4.00	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
5.00	23.52617	31.90	0.00	3.12	4.00	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
4.75	23.54759	31.90	0.00	3.12	3.99	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
4.50	23.56901	31.90	0.00	3.12	3.98	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
4.25	23.59043	31.90	0.00	3.13	3.97	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
4.00	23.61185	31.90	0.00	3.13	3.97	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
3.75	23.23689	31.90	0.00	3.13	3.96	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
3.50	23.25832	31.90	0.00	3.13	3.95	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.23	2.75
3.25	23.27974	31.90	0.00	3.14	3.95	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
3.00	23.30116	31.90	0.00	3.14	3.94	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
2.75	23.32258	31.90	0.00	3.15	3.94	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75

2.50	23.34400	31.90	0.00	3.15	3.93	0.00	1.14	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
2.25	23.36542	31.90	0.00	3.15	3.93	0.00	1.13	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
2.00	23.38684	31.90	0.00	3.16	3.92	0.00	1.13	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
1.75	23.40831	31.90	0.00	3.16	3.92	0.00	1.13	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
1.50	23.42973	31.90	0.00	3.17	3.92	0.00	1.13	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
1.25	23.45115	31.90	0.00	3.17	3.91	0.00	1.13	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
1.00	23.47257	31.90	0.00	3.18	3.91	0.00	1.13	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
0.75	23.49399	31.90	0.00	3.18	3.91	0.00	1.13	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
0.50	23.51541	31.90	0.00	3.19	3.90	0.00	1.13	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
0.25	23.53683	31.90	0.00	3.20	3.90	0.00	1.13	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75
0.00	23.55826	31.90	0.00	3.20	3.90	0.00	1.13	0.12	24.00	0.07	0.26	0.00	0.00	0.00	0.24	2.75

CONDENSED CAPSULE SUMMARY FOR Bayou Black

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3	CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.00700	32.00	0.00	1.49	9.75	0.00	1.41	0.30	25.00							
44.75	0.01100	32.10	0.00	10.55	0.46	0.00	0.25	0.02	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.50
44.50	0.01500	32.09	0.00	10.87	0.36	0.00	0.14	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.50
44.25	0.01900	32.09	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.50
44.00	0.02300	32.08	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.50
43.75	0.02700	32.08	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.50
43.50	0.03100	32.08	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.50
43.25	0.03500	32.07	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.50
43.00	0.03900	32.07	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.50
42.75	0.04300	32.06	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.50
42.50	0.04700	32.06	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.50
42.25	0.05100	32.06	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.50
42.00	0.05500	32.05	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.50
41.75	0.05900	32.05	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
41.50	0.06300	32.04	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
41.25	0.06700	32.04	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
41.00	0.07100	32.04	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
40.75	0.07500	32.03	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
40.50	0.07900	32.03	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
40.25	0.08300	32.02	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
40.00	0.08700	32.02	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
39.75	0.09100	32.02	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
39.50	0.09500	32.01	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
39.25	0.09900	32.01	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
39.00	0.10300	32.00	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
38.75	0.10700	32.00	0.00	10.89	0.36	0.00	0.13	0.01	25.00	0.19	0.26	0.00	0.00	0.00	0.45	1.49
38.50	0.10986	32.00	0.00	8.96	1.81	0.00	0.21	0.01	25.71	0.75	0.26	0.00	0.00	0.00	0.45	1.49
38.25	0.11271	32.00	0.00	7.74	2.91	0.00	0.28	0.01	26.43	0.75	0.26	0.00	0.00	0.00	0.45	1.49
38.00	0.11557	32.00	0.00	6.95	3.76	0.00	0.35	0.02	27.14	0.75	0.26	0.00	0.00	0.00	0.44	1.49
37.75	0.11843	32.00	0.00	6.42	4.42	0.00	0.42	0.02	27.86	0.75	0.26	0.00	0.00	0.00	0.43	1.49
37.50	0.12129	32.00	0.00	6.05	4.93	0.00	0.48	0.02	28.57	0.75	0.26	0.00	0.00	0.00	0.43	1.49

37.25	0.12414	32.00	0.00	5.80	5.33	0.00	0.53	0.03	29.29	0.75	0.26	0.00	0.00	0.00	0.43	1.49
37.00	0.12700	32.00	0.00	5.62	5.65	0.00	0.59	0.03	30.00	0.75	0.26	0.00	0.00	0.00	0.42	1.49
36.75	0.12986	32.00	0.00	5.50	5.90	0.00	0.64	0.03	30.71	0.75	0.26	0.00	0.00	0.00	0.42	1.49
36.50	0.13271	32.00	0.00	5.41	6.09	0.00	0.68	0.04	31.43	0.75	0.26	0.00	0.00	0.00	0.42	1.49
36.25	0.13557	32.00	0.00	5.35	6.25	0.00	0.73	0.04	32.14	0.75	0.26	0.00	0.00	0.00	0.42	1.49
36.00	0.13857	32.00	0.00	5.31	6.41	0.00	0.77	0.04	32.86	0.75	0.26	0.00	0.00	0.00	0.42	1.49
35.75	0.14143	32.00	0.00	5.28	6.50	0.00	0.81	0.05	33.57	0.75	0.26	0.00	0.00	0.00	0.42	1.49
35.50	0.14428	32.00	0.00	5.27	6.58	0.00	0.84	0.05	34.29	0.75	0.26	0.00	0.00	0.00	0.42	1.49
35.25	0.14714	32.00	0.00	5.27	6.64	0.00	0.88	0.05	35.00	0.75	0.26	0.00	0.00	0.00	0.42	1.49
35.00	0.15000	32.00	0.00	5.27	6.70	0.00	0.91	0.05	35.71	0.75	0.26	0.00	0.00	0.00	0.42	1.49
34.75	0.15285	32.00	0.00	5.29	6.74	0.00	0.94	0.05	36.43	0.75	0.26	0.00	0.00	0.00	0.42	1.49
34.50	0.15571	32.00	0.00	5.30	6.77	0.00	0.97	0.06	37.14	0.75	0.26	0.00	0.00	0.00	0.42	1.49
34.25	0.15857	32.00	0.00	5.32	6.80	0.00	0.99	0.06	37.86	0.75	0.26	0.00	0.00	0.00	0.42	1.49
34.00	0.16147	32.00	0.00	5.34	6.83	0.00	1.02	0.06	38.57	0.75	0.26	0.00	0.00	0.00	0.42	1.49
33.75	0.16432	32.00	0.00	5.37	6.85	0.00	1.05	0.06	39.29	0.75	0.26	0.00	0.00	0.00	0.42	1.49
33.50	0.16718	32.00	0.00	5.40	6.86	0.00	1.07	0.06	40.00	0.75	0.26	0.00	0.00	0.00	0.42	1.49
33.25	0.17004	32.00	0.00	5.43	6.87	0.00	1.09	0.06	40.71	0.75	0.26	0.00	0.00	0.00	0.42	1.49
33.00	0.17289	32.00	0.00	5.46	6.89	0.00	1.11	0.06	41.43	0.75	0.26	0.00	0.00	0.00	0.42	1.49
32.75	0.17575	32.00	0.00	5.49	6.89	0.00	1.13	0.07	42.14	0.75	0.26	0.00	0.00	0.00	0.42	1.49
32.50	0.17861	32.00	0.00	5.52	6.90	0.00	1.15	0.07	42.86	0.75	0.26	0.00	0.00	0.00	0.42	1.49
32.25	0.18147	32.00	0.00	5.56	6.91	0.00	1.17	0.07	43.57	0.75	0.26	0.00	0.00	0.00	0.42	1.49
32.00	0.18432	32.00	0.00	5.59	6.91	0.00	1.19	0.07	44.29	0.75	0.26	0.00	0.00	0.00	0.42	1.49
31.75	0.18718	32.00	0.00	5.62	6.92	0.00	1.21	0.07	45.00	0.75	0.26	0.00	0.00	0.00	0.42	1.49
31.50	0.19154	32.00	0.00	5.64	7.04	0.00	1.22	0.08	45.71	0.75	0.26	0.00	0.00	0.00	0.42	1.49
31.25	0.19439	32.00	0.00	5.66	7.03	0.00	1.24	0.08	46.43	0.75	0.26	0.00	0.00	0.00	0.42	1.49
31.00	0.19725	32.00	0.00	5.70	7.02	0.00	1.25	0.08	47.14	0.75	0.26	0.00	0.00	0.00	0.42	1.49
30.75	0.20011	32.00	0.00	5.73	7.01	0.00	1.27	0.08	47.86	0.75	0.26	0.00	0.00	0.00	0.43	1.49
30.50	0.20297	32.00	0.00	5.77	7.00	0.00	1.28	0.08	48.57	0.75	0.26	0.00	0.00	0.00	0.43	1.49
30.25	0.20582	32.00	0.00	5.81	6.99	0.00	1.29	0.08	49.29	0.75	0.26	0.00	0.00	0.00	0.43	1.49
30.00	0.20868	32.00	0.00	5.85	6.99	0.00	1.31	0.08	50.00	0.75	0.26	0.00	0.00	0.00	0.43	1.49
29.75	0.21011	32.00	0.00	5.44	6.49	0.00	1.30	0.08	49.78	0.75	0.29	0.00	0.00	0.00	0.42	2.77
29.50	0.21155	32.00	0.00	5.20	6.07	0.00	1.29	0.08	49.57	0.75	0.29	0.00	0.00	0.00	0.42	2.77
29.25	0.21298	32.00	0.00	5.05	5.70	0.00	1.28	0.08	49.35	0.75	0.29	0.00	0.00	0.00	0.41	2.77
29.00	0.21441	32.00	0.00	4.98	5.39	0.00	1.27	0.08	49.13	0.75	0.29	0.00	0.00	0.00	0.41	2.77
28.75	0.21585	32.00	0.00	4.95	5.11	0.00	1.27	0.08	48.92	0.75	0.29	0.00	0.00	0.00	0.41	2.77
28.50	0.21728	32.00	0.00	4.95	4.88	0.00	1.26	0.08	48.70	0.75	0.29	0.00	0.00	0.00	0.41	2.77
28.25	0.21871	31.99	0.00	4.97	4.67	0.00	1.25	0.08	48.48	0.75	0.29	0.00	0.00	0.00	0.41	2.77
28.00	0.22207	31.99	0.00	4.98	4.64	0.00	1.24	0.09	48.27	0.75	0.29	0.00	0.00	0.00	0.41	2.77
27.75	0.22350	31.99	0.00	5.00	4.47	0.00	1.24	0.09	48.05	0.75	0.29	0.00	0.00	0.00	0.41	2.77
27.50	0.22493	31.99	0.00	5.03	4.32	0.00	1.23	0.08	47.83	0.75	0.29	0.00	0.00	0.00	0.41	2.77
27.25	0.22637	31.99	0.00	5.06	4.19	0.00	1.22	0.08	47.62	0.75	0.29	0.00	0.00	0.00	0.41	2.77
27.00	0.22780	31.99	0.00	5.09	4.08	0.00	1.22	0.08	47.40	0.75	0.29	0.00	0.00	0.00	0.41	2.77
26.75	0.22923	31.99	0.00	5.12	3.98	0.00	1.21	0.08	47.18	0.75	0.29	0.00	0.00	0.00	0.42	2.77
26.50	0.23067	31.99	0.00	5.15	3.90	0.00	1.20	0.08	46.97	0.75	0.29	0.00	0.00	0.00	0.42	2.77
26.25	0.23210	31.99	0.00	5.17	3.83	0.00	1.20	0.08	46.75	0.75	0.29	0.00	0.00	0.00	0.42	2.77
26.00	0.23353	31.99	0.00	5.19	3.76	0.00	1.19	0.08	46.53	0.75	0.29	0.00	0.00	0.00	0.42	2.77
25.75	0.23497	31.99	0.00	5.21	3.71	0.00	1.19	0.08	46.32	0.75	0.29	0.00	0.00	0.00	0.42	2.77
25.50	0.23640	31.99	0.00	5.23	3.66	0.00	1.18	0.08	46.10	0.75	0.29	0.00	0.00	0.00	0.42	2.77
25.25	0.23783	31.98	0.00	5.24	3.61	0.00	1.18	0.08	45.88	0.75	0.29	0.00	0.00	0.00	0.42	2.77
25.00	0.23927	31.98	0.00	5.25	3.58	0.00	1.17	0.08	45.67	0.75	0.29	0.00	0.00	0.00	0.42	2.76

24.75	0.24070	31.98	0.00	5.26	3.54	0.00	1.17	0.07	45.45	0.75	0.29	0.00	0.00	0.00	0.42	2.76
24.50	0.24213	31.98	0.00	5.27	3.52	0.00	1.16	0.07	45.23	0.75	0.29	0.00	0.00	0.00	0.42	2.76
24.25	0.24357	31.98	0.00	5.27	3.49	0.00	1.16	0.07	45.02	0.75	0.29	0.00	0.00	0.00	0.42	2.76
24.00	0.24500	31.98	0.00	5.27	3.47	0.00	1.15	0.07	44.80	0.75	0.29	0.00	0.00	0.00	0.42	2.76
23.75	0.24643	31.98	0.00	5.27	3.45	0.00	1.15	0.07	44.58	0.75	0.29	0.00	0.00	0.00	0.42	2.76
23.50	0.24787	31.98	0.00	5.27	3.43	0.00	1.14	0.07	44.37	0.75	0.29	0.00	0.00	0.00	0.42	2.76
23.25	0.24930	31.98	0.00	5.27	3.42	0.00	1.14	0.07	44.15	0.75	0.29	0.00	0.00	0.00	0.42	2.76
23.00	0.25144	31.98	0.00	5.26	3.47	0.00	1.13	0.08	43.93	0.75	0.29	0.00	0.00	0.00	0.42	2.76
22.75	0.25288	31.98	0.00	5.25	3.45	0.00	1.13	0.07	43.72	0.75	0.29	0.00	0.00	0.00	0.42	2.76
22.50	0.25431	31.98	0.00	5.24	3.44	0.00	1.12	0.07	43.50	0.75	0.29	0.00	0.00	0.00	0.42	2.76
22.25	0.25574	31.97	0.00	5.23	3.42	0.00	1.12	0.07	43.28	0.75	0.29	0.00	0.00	0.00	0.42	2.76
22.00	0.25718	31.97	0.00	5.23	3.41	0.00	1.12	0.07	43.07	0.75	0.29	0.00	0.00	0.00	0.42	2.76
21.75	0.25861	31.97	0.00	5.22	3.40	0.00	1.11	0.07	42.85	0.75	0.29	0.00	0.00	0.00	0.42	2.76
21.50	0.26004	31.97	0.00	5.21	3.39	0.00	1.11	0.07	42.63	0.75	0.29	0.00	0.00	0.00	0.42	2.76
21.25	0.26148	31.97	0.00	5.21	3.38	0.00	1.10	0.07	42.42	0.75	0.29	0.00	0.00	0.00	0.42	2.76
21.00	0.26291	31.97	0.00	5.20	3.37	0.00	1.10	0.07	42.20	0.75	0.29	0.00	0.00	0.00	0.42	2.76
20.75	0.26434	31.97	0.00	5.19	3.36	0.00	1.10	0.07	41.98	0.75	0.29	0.00	0.00	0.00	0.42	2.76
20.50	0.26578	31.97	0.00	5.18	3.36	0.00	1.09	0.07	41.77	0.75	0.29	0.00	0.00	0.00	0.42	2.76
20.25	0.26721	31.97	0.00	5.17	3.35	0.00	1.09	0.07	41.55	0.75	0.29	0.00	0.00	0.00	0.41	2.76
20.00	0.26864	31.97	0.00	5.17	3.35	0.00	1.09	0.07	41.33	0.75	0.29	0.00	0.00	0.00	0.41	2.76
19.75	0.27008	31.97	0.00	5.16	3.34	0.00	1.08	0.07	41.12	0.75	0.29	0.00	0.00	0.00	0.41	2.76
19.50	0.27151	31.97	0.00	5.15	3.34	0.00	1.08	0.07	40.90	0.75	0.29	0.00	0.00	0.00	0.41	2.76
19.25	0.27294	31.96	0.00	5.14	3.33	0.00	1.08	0.07	40.68	0.75	0.29	0.00	0.00	0.00	0.41	2.76
19.00	0.27438	31.96	0.00	5.13	3.33	0.00	1.07	0.07	40.47	0.75	0.29	0.00	0.00	0.00	0.41	2.76
18.75	0.27581	31.96	0.00	5.12	3.33	0.00	1.07	0.07	40.25	0.75	0.29	0.00	0.00	0.00	0.41	2.76
18.50	0.27724	31.96	0.00	5.11	3.33	0.00	1.07	0.07	40.03	0.75	0.29	0.00	0.00	0.00	0.41	2.76
18.25	0.27886	31.96	0.00	5.09	3.35	0.00	1.06	0.07	39.82	0.75	0.29	0.00	0.00	0.00	0.41	2.76
18.00	0.28029	31.96	0.00	5.08	3.34	0.00	1.06	0.07	39.60	0.75	0.29	0.00	0.00	0.00	0.41	2.76
17.75	0.28172	31.96	0.00	5.07	3.34	0.00	1.06	0.07	39.38	0.75	0.29	0.00	0.00	0.00	0.41	2.76
17.50	0.28316	31.96	0.00	5.06	3.34	0.00	1.05	0.07	39.17	0.75	0.29	0.00	0.00	0.00	0.41	2.76
17.25	0.28459	31.96	0.00	5.05	3.33	0.00	1.05	0.07	38.95	0.75	0.29	0.00	0.00	0.00	0.41	2.76
17.00	0.28602	31.96	0.00	5.04	3.33	0.00	1.05	0.07	38.73	0.75	0.29	0.00	0.00	0.00	0.41	2.76
16.75	0.28746	31.96	0.00	5.03	3.33	0.00	1.05	0.07	38.52	0.75	0.29	0.00	0.00	0.00	0.41	2.76
16.50	0.28889	31.95	0.00	5.02	3.33	0.00	1.04	0.07	38.30	0.75	0.29	0.00	0.00	0.00	0.41	2.76
16.25	0.29074	31.95	0.00	5.00	3.36	0.00	1.04	0.07	38.08	0.75	0.29	0.00	0.00	0.00	0.41	2.76
16.00	0.29218	31.95	0.00	4.99	3.35	0.00	1.04	0.07	37.87	0.75	0.29	0.00	0.00	0.00	0.41	2.76
15.75	0.29361	31.95	0.00	4.97	3.35	0.00	1.04	0.07	37.65	0.75	0.29	0.00	0.00	0.00	0.41	2.76
15.50	0.29504	31.95	0.00	4.96	3.34	0.00	1.03	0.07	37.43	0.75	0.29	0.00	0.00	0.00	0.41	2.76
15.25	0.29648	31.95	0.00	4.95	3.34	0.00	1.03	0.07	37.22	0.75	0.29	0.00	0.00	0.00	0.41	2.76
15.00	0.29791	31.95	0.00	4.94	3.34	0.00	1.03	0.07	37.00	0.75	0.29	0.00	0.00	0.00	0.41	2.76
14.75	0.29934	31.95	0.00	4.93	3.33	0.00	1.03	0.07	36.78	0.75	0.29	0.00	0.00	0.00	0.41	2.76
14.50	0.30078	31.95	0.00	4.92	3.33	0.00	1.02	0.07	36.57	0.75	0.29	0.00	0.00	0.00	0.41	2.76
14.25	0.30221	31.95	0.00	4.90	3.33	0.00	1.02	0.07	36.35	0.75	0.29	0.00	0.00	0.00	0.41	2.76
14.00	0.30364	31.95	0.00	4.89	3.33	0.00	1.02	0.07	36.13	0.75	0.29	0.00	0.00	0.00	0.41	2.76
13.75	0.30508	31.95	0.00	4.88	3.33	0.00	1.02	0.07	35.92	0.75	0.29	0.00	0.00	0.00	0.41	2.76
13.50	0.30651	31.94	0.00	4.87	3.32	0.00	1.02	0.07	35.70	0.75	0.29	0.00	0.00	0.00	0.41	2.76
13.25	0.30794	31.94	0.00	4.86	3.32	0.00	1.01	0.07	35.48	0.75	0.29	0.00	0.00	0.00	0.41	2.76
13.00	0.31504	31.94	0.00	4.68	3.68	0.00	1.02	0.38	35.27	0.75	0.29	0.00	0.00	0.00	0.40	2.76
12.75	0.31647	31.94	0.00	4.55	3.64	0.00	1.02	0.34	35.05	0.75	0.29	0.00	0.00	0.00	0.40	2.76
12.50	0.31790	31.94	0.00	4.46	3.61	0.00	1.01	0.31	34.83	0.75	0.29	0.00	0.00	0.00	0.40	2.76

12.25	0.31934	31.94	0.00	4.41	3.58	0.00	1.01	0.28	34.62	0.75	0.29	0.00	0.00	0.00	0.40	2.76
12.00	0.32077	31.94	0.00	4.37	3.56	0.00	1.01	0.25	34.40	0.75	0.29	0.00	0.00	0.00	0.40	2.76
11.75	0.32220	31.94	0.00	4.36	3.54	0.00	1.01	0.23	34.18	0.75	0.29	0.00	0.00	0.00	0.40	2.76
11.50	0.32364	31.94	0.00	4.35	3.51	0.00	1.01	0.21	33.97	0.75	0.29	0.00	0.00	0.00	0.40	2.76
11.25	0.32507	31.94	0.00	4.35	3.50	0.00	1.01	0.20	33.75	0.75	0.29	0.00	0.00	0.00	0.40	2.76
11.00	0.32650	31.94	0.00	4.36	3.48	0.00	1.00	0.18	33.53	0.75	0.29	0.00	0.00	0.00	0.40	2.76
10.75	0.32794	31.94	0.00	4.37	3.46	0.00	1.00	0.17	33.32	0.75	0.29	0.00	0.00	0.00	0.40	2.76
10.50	0.32937	31.93	0.00	4.38	3.45	0.00	1.00	0.15	33.10	0.75	0.29	0.00	0.00	0.00	0.40	2.76
10.25	0.33080	31.93	0.00	4.40	3.44	0.00	1.00	0.14	32.88	0.75	0.29	0.00	0.00	0.00	0.40	2.76
10.00	0.33224	31.93	0.00	4.41	3.43	0.00	1.00	0.14	32.67	0.75	0.29	0.00	0.00	0.00	0.40	2.76
9.75	0.33367	31.93	0.00	4.42	3.42	0.00	0.99	0.13	32.45	0.75	0.29	0.00	0.00	0.00	0.40	2.76
9.50	0.33510	31.93	0.00	4.43	3.41	0.00	0.99	0.12	32.23	0.75	0.29	0.00	0.00	0.00	0.40	2.76
9.25	0.33654	31.93	0.00	4.44	3.40	0.00	0.99	0.11	32.02	0.75	0.29	0.00	0.00	0.00	0.40	2.76
9.00	0.33797	31.93	0.00	4.45	3.39	0.00	0.99	0.11	31.80	0.75	0.29	0.00	0.00	0.00	0.40	2.76
8.75	0.34100	31.93	0.00	4.45	3.42	0.00	0.99	0.11	31.58	0.75	0.29	0.00	0.00	0.00	0.40	2.76
8.50	0.34244	31.93	0.00	4.46	3.41	0.00	0.99	0.10	31.37	0.75	0.29	0.00	0.00	0.00	0.40	2.76
8.25	0.34387	31.93	0.00	4.46	3.40	0.00	0.99	0.10	31.15	0.75	0.29	0.00	0.00	0.00	0.40	2.76
8.00	0.34531	31.93	0.00	4.46	3.39	0.00	0.99	0.10	30.93	0.75	0.29	0.00	0.00	0.00	0.40	2.76
7.75	0.87337	31.93	0.00	7.67	5.61	0.00	1.23	0.10	30.72	0.75	0.29	0.00	0.00	0.00	0.44	2.75
7.50	0.87480	31.92	0.00	7.33	5.53	0.00	1.23	0.10	30.50	0.75	0.29	0.00	0.00	0.00	0.44	2.75
7.25	0.87623	31.92	0.00	7.02	5.45	0.00	1.23	0.09	30.28	0.75	0.29	0.00	0.00	0.00	0.44	2.75
7.00	0.87767	31.92	0.00	6.74	5.37	0.00	1.23	0.09	30.07	0.75	0.29	0.00	0.00	0.00	0.43	2.75
6.75	0.87910	31.92	0.00	6.48	5.30	0.00	1.23	0.09	29.85	0.75	0.29	0.00	0.00	0.00	0.43	2.75
6.50	0.88053	31.92	0.00	6.25	5.23	0.00	1.23	0.09	29.63	0.75	0.29	0.00	0.00	0.00	0.43	2.75
6.25	0.88197	31.92	0.00	6.03	5.16	0.00	1.22	0.09	29.42	0.75	0.29	0.00	0.00	0.00	0.43	2.75
6.00	0.88340	31.92	0.00	5.84	5.10	0.00	1.22	0.09	29.20	0.75	0.29	0.00	0.00	0.00	0.42	2.75
5.75	0.88483	31.92	0.00	5.66	5.03	0.00	1.22	0.09	28.98	0.75	0.29	0.00	0.00	0.00	0.42	2.75
5.50	0.88627	31.92	0.00	5.50	4.97	0.00	1.22	0.09	28.77	0.75	0.29	0.00	0.00	0.00	0.42	2.75
5.25	0.88770	31.92	0.00	5.36	4.91	0.00	1.22	0.09	28.55	0.75	0.29	0.00	0.00	0.00	0.42	2.75
5.00	0.88913	31.92	0.00	5.23	4.86	0.00	1.22	0.09	28.33	0.75	0.29	0.00	0.00	0.00	0.41	2.75
4.75	0.89057	31.92	0.00	5.11	4.80	0.00	1.21	0.09	28.12	0.75	0.29	0.00	0.00	0.00	0.41	2.75
4.50	0.89200	31.91	0.00	5.00	4.75	0.00	1.21	0.09	27.90	0.75	0.29	0.00	0.00	0.00	0.41	2.75
4.25	0.89343	31.91	0.00	4.90	4.70	0.00	1.21	0.09	27.68	0.75	0.29	0.00	0.00	0.00	0.41	2.75
4.00	0.89487	31.91	0.00	4.81	4.65	0.00	1.21	0.09	27.47	0.75	0.29	0.00	0.00	0.00	0.41	2.75
3.75	0.89630	31.91	0.00	4.73	4.61	0.00	1.21	0.08	27.25	0.75	0.29	0.00	0.00	0.00	0.40	2.75
3.50	0.89773	31.91	0.00	4.65	4.56	0.00	1.21	0.08	27.03	0.75	0.29	0.00	0.00	0.00	0.40	2.75
3.25	0.89917	31.91	0.00	4.58	4.52	0.00	1.20	0.08	26.82	0.75	0.29	0.00	0.00	0.00	0.40	2.75
3.00	0.90060	31.91	0.00	4.52	4.48	0.00	1.20	0.08	26.60	0.75	0.29	0.00	0.00	0.00	0.40	2.75
2.75	0.90203	31.91	0.00	4.46	4.44	0.00	1.20	0.08	26.38	0.75	0.29	0.00	0.00	0.00	0.40	2.75
2.50	0.90347	31.91	0.00	4.41	4.40	0.00	1.20	0.08	26.17	0.75	0.29	0.00	0.00	0.00	0.40	2.75
2.25	0.90490	31.91	0.00	4.36	4.36	0.00	1.20	0.08	25.95	0.75	0.29	0.00	0.00	0.00	0.40	2.75
2.00	0.90633	31.91	0.00	4.32	4.33	0.00	1.20	0.08	25.73	0.75	0.29	0.00	0.00	0.00	0.39	2.75
1.75	0.90777	31.91	0.00	4.28	4.29	0.00	1.20	0.08	25.52	0.75	0.29	0.00	0.00	0.00	0.39	2.75
1.50	0.90920	31.90	0.00	4.25	4.26	0.00	1.19	0.08	25.30	0.75	0.29	0.00	0.00	0.00	0.39	2.75
1.25	0.91063	31.90	0.00	4.21	4.23	0.00	1.19	0.08	25.08	0.75	0.29	0.00	0.00	0.00	0.39	2.75
1.00	0.91207	31.90	0.00	4.18	4.19	0.00	1.19	0.08	24.87	0.75	0.29	0.00	0.00	0.00	0.39	2.75
0.75	2.21588	31.90	0.00	3.06	7.20	0.00	1.45	0.12	24.65	0.75	0.29	0.00	0.00	0.00	0.36	2.75
0.50	2.21770	31.90	0.00	3.04	7.15	0.00	1.45	0.12	24.43	0.75	0.29	0.00	0.00	0.00	0.36	2.75
0.25	2.21914	31.90	0.00	3.03	7.10	0.00	1.45	0.12	24.22	0.75	0.29	0.00	0.00	0.00	0.36	2.75
0.00	2.22057	31.90	0.00	3.02	7.04	0.00	1.44	0.12	24.00	0.75	0.29	0.00	0.00	0.00	0.36	2.75

EXPANDED CAPSULE SUMMARY FOR ICWW

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m²/s	CHLA m	DISP m	ADVEC MEAN DEPTH m/s	ADVEC MEAN VELO m/s	DO mg/L	REAER 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
	HDWTR		0.255	31.2	0.0	6.7	3.7	0.0	1.3	0.1	20.0											
1	IC 1	93.75	0.281	31.2	0.0	6.3	2.5	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.092	0.25	0.00	0.00	0.00	0.27	2.03
2	IC 1	93.50	0.308	31.2	0.0	6.5	2.4	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.092	0.25	0.00	0.00	0.00	0.27	2.03
3	IC 1	93.25	0.334	31.3	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.03
4	IC 1	93.00	0.360	31.3	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.04
5	IC 1	92.75	0.387	31.3	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.04
6	IC 1	92.50	0.413	31.3	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.04
7	IC 1	92.25	0.439	31.3	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.04
8	IC 1	92.00	0.466	31.4	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.05
9	IC 1	91.75	0.492	31.4	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.05
10	IC 1	91.50	0.518	31.4	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.05
11	IC 1	91.25	0.544	31.4	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.05
12	IC 1	91.00	0.571	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.06
13	IC 1	90.75	0.597	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.06
14	IC 1	90.50	0.623	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.28	2.06
15	IC 1	90.25	0.650	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.28	2.07
16	IC 1	90.00	0.676	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.28	2.07
17	IC 1	89.75	0.702	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.26	0.00	0.00	0.00	0.28	2.07
18	IC 1	89.50	0.729	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.26	0.00	0.00	0.00	0.28	2.07
19	IC 1	89.25	0.755	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.26	0.00	0.00	0.00	0.28	2.08
20	IC 1	89.00	0.781	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.4	0.093	0.26	0.00	0.00	0.00	0.28	2.08
21	IC 1	88.75	0.808	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.08
22	IC 1	88.50	0.834	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.000	0.000	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.08
23	IC 1	88.25	0.860	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.09
24	IC 1	88.00	0.887	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.09
25	IC 1	87.75	0.913	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.09
26	IC 1	87.50	0.939	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.10
27	IC 1	87.25	0.966	31.8	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.10
28	IC 1	87.00	0.992	31.8	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.10
29	IC 1	86.75	1.018	31.8	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.10
30	IC 1	86.50	1.044	31.8	0.0	6.8	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.11
31	IC 1	86.25	1.071	31.9	0.0	6.8	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.11
32	IC 1	86.00	1.097	31.9	0.0	6.8	2.3	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.11
33	IC 1	85.75	1.123	31.9	0.0	6.8	2.2	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.12
34	IC 1	85.50	1.150	31.9	0.0	6.8	2.2	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.12
35	IC 1	85.25	1.176	31.9	0.0	6.8	2.2	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.12
36	IC 1	85.00	1.202	32.0	0.0	6.8	2.2	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.12
37	IC 1	84.75	1.229	32.0	0.0	6.8	2.2	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.13
38	IC 1	84.50	1.255	32.0	0.0	6.8	2.2	0.0	1.3	0.1	20.0	0.0	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.13
WASTELOAD # 039 (Bayou Boeuff) ENTERS HERE																								
39	IC 2	84.25	49.177	32.0	0.0	4.4	4.8	0.0	1.6	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
40	IC 2	84.00	49.193	32.0	0.0	4.3	4.7	0.0	1.6	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
41	IC 2	83.75	49.209	32.0	0.0	4.3	4.6	0.0	1.6	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
42	IC 2	83.50	49.226	32.0	0.0	4.2	4.5	0.0	1.6	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13

43	IC	2	83.25	49.242	32.0	0.0	4.2	4.4	0.0	1.6	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
44	IC	2	83.00	49.259	32.0	0.0	4.1	4.4	0.0	1.6	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
45	IC	2	82.75	49.275	32.0	0.0	4.1	4.3	0.0	1.6	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
46	IC	2	82.50	49.292	32.0	0.0	4.0	4.2	0.0	1.6	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
47	IC	2	82.25	49.308	32.0	0.0	4.0	4.1	0.0	1.6	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
48	IC	2	82.00	49.325	32.0	0.0	3.9	4.0	0.0	1.6	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
49	IC	2	81.75	49.341	32.0	0.0	3.9	4.0	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
50	IC	2	81.50	49.357	32.0	0.0	3.9	3.9	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
51	IC	2	81.25	49.374	32.0	0.0	3.9	3.8	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
52	IC	2	81.00	49.390	32.0	0.0	3.8	3.8	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
53	IC	2	80.75	49.407	32.0	0.0	3.8	3.7	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
54	IC	2	80.50	49.423	32.0	0.0	3.8	3.7	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
55	IC	2	80.25	49.440	32.0	0.0	3.8	3.6	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
56	IC	2	80.00	49.456	32.0	0.0	3.8	3.6	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
DIVERSION # 057 (Bayou Chene) LEAVES HERE																									
57	IC	2	79.75	12.997	32.0	0.0	3.7	3.5	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
58	IC	2	79.50	13.013	32.0	0.0	3.7	3.4	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
59	IC	2	79.25	13.030	32.0	0.0	3.7	3.2	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
60	IC	2	79.00	13.046	32.0	0.0	3.7	3.1	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
61	IC	2	78.75	13.062	32.0	0.0	3.8	3.0	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.14
62	IC	2	78.50	13.079	32.0	0.0	3.8	2.9	0.0	1.5	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.14
63	IC	2	78.25	13.095	32.0	0.0	3.9	2.8	0.0	1.4	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.14
64	IC	2	78.00	13.112	32.0	0.0	3.9	2.8	0.0	1.4	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.14
65	IC	2	77.75	13.128	32.1	0.0	4.0	2.7	0.0	1.4	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
66	IC	2	77.50	13.145	32.1	0.0	4.1	2.7	0.0	1.4	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
67	IC	2	77.25	13.161	32.1	0.0	4.1	2.6	0.0	1.4	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
68	IC	2	77.00	13.178	32.1	0.0	4.2	2.6	0.0	1.4	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
69	IC	2	76.75	13.194	32.1	0.0	4.3	2.5	0.0	1.4	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
70	IC	2	76.50	13.210	32.1	0.0	4.4	2.5	0.0	1.4	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
71	IC	2	76.25	13.227	32.1	0.0	4.4	2.5	0.0	1.3	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14

EXPANDED CAPSULE SUMMARY FOR ICWW

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m²/s	ADVEC m	MEAN m	DO m/s	REAER m/s	BOD1 mg/L	BOD1 1/da	BOD2 1/da	BOD2 1/da	NH3 1/da	SAT 1/da	RATE g/m²/d	DECA 1/da	SETT 1/da	DECA 1/da	SETT 1/da	DECA 1/da	SOD
72	IC 2	76.00	13.243	32.1	0.0	4.5	2.5	0.0	1.3	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14			
73	IC 2	75.75	13.260	32.1	0.0	4.6	2.5	0.0	1.3	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14			
74	IC 2	75.50	13.276	32.1	0.0	4.7	2.4	0.0	1.3	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14			
75	IC 2	75.25	13.293	32.1	0.0	4.8	2.4	0.0	1.3	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14			
76	IC 2	75.00	13.309	32.1	0.0	4.8	2.4	0.0	1.3	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14			
77	IC 2	74.75	13.326	32.1	0.0	4.9	2.4	0.0	1.3	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14			
78	IC 2	74.50	13.342	32.1	0.0	5.0	2.4	0.0	1.3	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14			
79	IC 2	74.25	13.358	32.1	0.0	5.1	2.4	0.0	1.3	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14			
80	IC 2	74.00	13.375	32.1	0.0	5.1	2.4	0.0	1.3	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14			
81	IC 2	73.75	13.391	32.1	0.0	5.2	2.4	0.0	1.3	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14			
82	IC 2	73.50	13.408	32.1	0.0	5.3	2.4	0.0	1.2	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14			
83	IC 2	73.25	13.424	32.1	0.0	5.3	2.4	0.0	1.2	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14			
84	IC 2	73.00	13.441	32.1	0.0	5.4	2.4	0.0	1.2	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14			
85	IC 2	72.75	13.457	32.1	0.0	5.5	2.4	0.0	1.2	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14			
86	IC 2	72.50	13.474	32.1	0.0	5.5	2.4	0.0	1.2	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.28	2.14			
87	IC 2	72.25	13.490	32.1	0.0	5.6	2.4	0.0	1.2	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.28	2.14			
88	IC 2	72.00	13.506	32.1	0.0	5.6	2.4	0.0	1.2	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.28	2.14			
WASTELOAD # 089 (Unnamed Canal) ENTERS HERE																											
89	IC 2	71.75	15.080	32.1	0.0	5.7	2.7	0.0	1.2	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.28	2.14			
90	IC 2	71.50	15.096	32.1	0.0	5.8	2.7	0.0	1.2	0.1	20.0	0.0	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.28	2.14			
91	IC 3	71.25	15.113	32.1	0.0	5.6	2.6	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.28	4.29			
92	IC 3	71.00	15.129	32.1	0.0	5.5	2.6	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.28	4.29			
93	IC 3	70.75	15.146	32.1	0.0	5.4	2.5	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.29			
94	IC 3	70.50	15.162	32.1	0.0	5.3	2.5	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.29			
95	IC 3	70.25	15.179	32.1	0.0	5.3	2.5	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.29			
96	IC 3	70.00	15.195	32.1	0.0	5.2	2.5	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.29			
97	IC 3	69.75	15.212	32.1	0.0	5.2	2.5	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30			
98	IC 3	69.50	15.228	32.1	0.0	5.1	2.5	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30			
99	IC 3	69.25	15.244	32.1	0.0	5.1	2.4	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30			
100	IC 3	69.00	15.261	32.2	0.0	5.0	2.4	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30			
101	IC 3	68.75	15.277	32.2	0.0	5.0	2.4	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30			
102	IC 3	68.50	15.294	32.2	0.0	5.0	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30			
103	IC 3	68.25	15.310	32.2	0.0	5.0	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30			
104	IC 3	68.00	15.327	32.2	0.0	4.9	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31			
105	IC 3	67.75	15.343	32.2	0.0	4.9	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31			
106	IC 3	67.50	15.360	32.2	0.0	4.9	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31			
107	IC 3	67.25	15.376	32.2	0.0	4.9	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31			
108	IC 3	67.00	15.393	32.2	0.0	4.9	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31			
109	IC 3	66.75	15.409	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31			
110	IC 3	66.50	15.425	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31			
111	IC 3	66.25	15.442	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.32			
112	IC 3	66.00	15.458	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.32			
113	IC 3	65.75	15.475	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.32			
114	IC 3	65.50	15.491	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.32			

115	IC	3	65.25	15.508	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.32
116	IC	3	65.00	15.524	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.0	12.77	395.3	0.003	0.003	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.32
WASTELOAD # 117 (Copasaw Canal) ENTERS HERE																									
117	IC	3	64.75	30.829	32.2	0.0	5.4	4.1	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.28	4.32
118	IC	3	64.50	30.846	32.2	0.0	5.2	3.9	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
119	IC	3	64.25	30.862	32.3	0.0	5.1	3.7	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
120	IC	3	64.00	30.879	32.3	0.0	4.9	3.6	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
121	IC	3	63.75	30.895	32.3	0.0	4.8	3.4	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
122	IC	3	63.50	30.912	32.3	0.0	4.7	3.3	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
123	IC	3	63.25	30.928	32.3	0.0	4.6	3.2	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
124	IC	3	63.00	30.945	32.3	0.0	4.5	3.1	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
125	IC	3	62.75	30.961	32.3	0.0	4.4	3.0	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.26	4.34
126	IC	3	62.50	30.977	32.3	0.0	4.3	3.0	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.26	4.34
127	IC	3	62.25	30.994	32.3	0.0	4.3	2.9	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.26	4.34
128	IC	3	62.00	31.010	32.3	0.0	4.2	2.9	0.0	1.2	0.1	20.0	0.0	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.26	4.34
129	IC	4	61.75	31.027	32.3	0.0	4.2	2.8	0.0	1.2	0.1	20.0	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.77
130	IC	4	61.50	31.043	32.3	0.0	4.2	2.8	0.0	1.2	0.1	20.1	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.77
131	IC	4	61.25	31.060	32.3	0.0	4.2	2.8	0.0	1.2	0.1	20.1	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.77
132	IC	4	61.00	31.076	32.3	0.0	4.1	2.7	0.0	1.2	0.1	20.2	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.77
133	IC	4	60.75	31.093	32.3	0.0	4.1	2.7	0.0	1.2	0.1	20.2	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.77
134	IC	4	60.50	31.109	32.3	0.0	4.1	2.7	0.0	1.2	0.1	20.2	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.77
135	IC	4	60.25	31.125	32.3	0.0	4.1	2.7	0.0	1.2	0.1	20.3	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
136	IC	4	60.00	31.142	32.3	0.0	4.1	2.7	0.0	1.2	0.1	20.3	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
137	IC	4	59.75	31.158	32.3	0.0	4.1	2.6	0.0	1.2	0.1	20.4	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
138	IC	4	59.50	31.175	32.3	0.0	4.1	2.6	0.0	1.2	0.1	20.4	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
139	IC	4	59.25	31.191	32.3	0.0	4.1	2.6	0.0	1.2	0.1	20.5	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
140	IC	4	59.00	31.208	32.2	0.0	4.1	2.6	0.0	1.2	0.1	20.5	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
141	IC	4	58.75	31.224	32.2	0.0	4.0	2.6	0.0	1.2	0.1	20.5	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
142	IC	4	58.50	31.240	32.2	0.0	4.0	2.5	0.0	1.2	0.1	20.6	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
143	IC	4	58.25	31.257	32.2	0.0	4.0	2.5	0.0	1.2	0.1	20.6	0.0	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75

EXPANDED CAPSULE SUMMARY FOR ICWW

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN VELO	DO SAT	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
144	IC	4	58.00	31.273	32.2	0.0	4.0	2.5	0.0	1.2	0.1	20.7	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
145	IC	4	57.75	31.290	32.2	0.0	4.0	2.5	0.0	1.2	0.1	20.7	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
146	IC	4	57.50	31.306	32.2	0.0	4.0	2.5	0.0	1.2	0.1	20.8	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
147	IC	4	57.25	31.323	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.8	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
148	IC	4	57.00	31.339	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.8	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
149	IC	4	56.75	31.356	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.9	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
150	IC	4	56.50	31.372	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.9	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
151	IC	4	56.25	31.388	32.2	0.0	4.1	2.5	0.0	1.2	0.1	21.0	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
152	IC	4	56.00	31.405	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.0	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
153	IC	4	55.75	31.421	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.0	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
154	IC	4	55.50	31.438	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.1	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
155	IC	4	55.25	31.454	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.1	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
156	IC	4	55.00	31.471	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.2	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74

157	IC	4	54.75	31.487	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.2	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
158	IC	4	54.50	31.503	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.2	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
159	IC	4	54.25	31.520	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.3	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
160	IC	4	54.00	31.536	32.2	0.0	4.2	2.4	0.0	1.2	0.1	21.3	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
161	IC	4	53.75	31.553	32.2	0.0	4.2	2.4	0.0	1.2	0.1	21.4	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
162	IC	4	53.50	31.569	32.2	0.0	4.2	2.4	0.0	1.2	0.1	21.4	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
163	IC	4	53.25	31.586	32.2	0.0	4.2	2.4	0.0	1.2	0.1	21.5	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
164	IC	4	53.00	31.602	32.1	0.0	4.2	2.4	0.0	1.2	0.1	21.5	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
165	IC	4	52.75	31.619	32.1	0.0	4.2	2.4	0.0	1.2	0.1	21.5	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
166	IC	4	52.50	31.635	32.1	0.0	4.2	2.4	0.0	1.2	0.1	21.6	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
167	IC	4	52.25	31.651	32.1	0.0	4.2	2.4	0.0	1.2	0.1	21.6	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
168	IC	4	52.00	31.668	32.1	0.0	4.3	2.4	0.0	1.2	0.1	21.7	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
169	IC	4	51.75	31.684	32.1	0.0	4.3	2.4	0.0	1.2	0.1	21.7	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
170	IC	4	51.50	31.701	32.1	0.0	4.3	2.4	0.0	1.2	0.1	21.8	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
171	IC	4	51.25	31.717	32.1	0.0	4.3	2.4	0.0	1.2	0.1	21.8	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
172	IC	4	51.00	31.734	32.1	0.0	4.3	2.4	0.0	1.2	0.1	21.8	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
173	IC	4	50.75	31.750	32.1	0.0	4.3	2.3	0.0	1.2	0.1	21.9	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
174	IC	4	50.50	31.766	32.1	0.0	4.4	2.3	0.0	1.2	0.1	21.9	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
175	IC	4	50.25	31.783	32.1	0.0	4.4	2.3	0.0	1.2	0.1	22.0	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.71
176	IC	4	50.00	31.799	32.1	0.0	4.4	2.3	0.0	1.2	0.1	22.0	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.71
177	IC	4	49.75	31.816	32.1	0.0	4.4	2.3	0.0	1.2	0.1	22.0	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.71
178	IC	4	49.50	31.832	32.1	0.0	4.4	2.3	0.0	1.2	0.1	22.1	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.71
179	IC	4	49.25	31.849	32.1	0.0	4.4	2.3	0.0	1.2	0.1	22.1	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.71
180	IC	4	49.00	31.865	32.1	0.0	4.5	2.3	0.0	1.2	0.1	22.2	0.0	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.71
WASTELOAD # 181 (Minors Canal South) ENTERS HERE																									
DIVERSION # 181 (Minors Canal North) LEAVES HERE																									
181	IC	4	48.75	35.831	32.1	0.0	5.2	2.9	0.0	1.2	0.1	22.2	0.0	12.19	190.0	0.015	0.015	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.71
182	IC	4	48.50	35.848	32.1	0.0	5.2	2.9	0.0	1.2	0.1	22.2	0.0	12.19	190.0	0.015	0.015	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.71
183	IC	4	48.25	35.864	32.1	0.0	5.1	2.9	0.0	1.2	0.1	22.3	0.0	12.19	190.0	0.015	0.015	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
184	IC	4	48.00	35.880	32.1	0.0	5.1	2.8	0.0	1.2	0.1	22.3	0.0	12.19	190.0	0.015	0.015	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
185	IC	4	47.75	35.897	32.1	0.0	5.1	2.8	0.0	1.2	0.1	22.4	0.0	12.19	190.0	0.015	0.015	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
186	IC	4	47.50	35.913	32.1	0.0	5.1	2.8	0.0	1.2	0.1	22.4	0.0	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
187	IC	4	47.25	35.930	32.1	0.0	5.1	2.8	0.0	1.2	0.1	22.5	0.0	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
188	IC	4	47.00	35.946	32.0	0.0	5.1	2.7	0.0	1.2	0.1	22.5	0.0	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
189	IC	4	46.75	35.963	32.0	0.0	5.1	2.7	0.0	1.2	0.1	22.5	0.0	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
190	IC	4	46.50	35.979	32.0	0.0	5.1	2.7	0.0	1.2	0.1	22.6	0.0	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
191	IC	4	46.25	35.996	32.0	0.0	5.1	2.7	0.0	1.2	0.1	22.6	0.0	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
192	IC	4	46.00	36.012	32.0	0.0	5.1	2.7	0.0	1.2	0.1	22.7	0.0	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.69
193	IC	4	45.75	36.028	32.0	0.0	5.0	2.6	0.0	1.2	0.1	22.7	0.0	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.69
194	IC	4	45.50	36.045	32.0	0.0	5.0	2.6	0.0	1.2	0.1	22.8	0.0	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.69
195	IC	4	45.25	36.061	32.0	0.0	5.0	2.6	0.0	1.2	0.1	22.8	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.69
196	IC	4	45.00	36.078	32.0	0.0	5.0	2.6	0.0	1.2	0.1	22.8	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.69
197	IC	4	44.75	36.094	32.0	0.0	5.0	2.6	0.0	1.2	0.1	22.9	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.69
198	IC	4	44.50	36.111	32.0	0.0	5.1	2.6	0.0	1.2	0.1	22.9	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.69
199	IC	4	44.25	36.127	32.0	0.0	5.1	2.6	0.0	1.2	0.1	23.0	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.69
200	IC	4	44.00	36.143	32.0	0.0	5.1	2.6	0.0	1.2	0.1	23.0	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
201	IC	4	43.75	36.160	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.0	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
202	IC	4	43.50	36.176	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.1	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
203	IC	4	43.25	36.193	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.1	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
204	IC	4	43.00	36.209	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.2	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68

205	IC	4	42.75	36.226	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.2	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
206	IC	4	42.50	36.242	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.2	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
207	IC	4	42.25	36.259	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.3	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
208	IC	4	42.00	36.275	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.3	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
209	IC	4	41.75	36.291	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.4	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
210	IC	4	41.50	36.308	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.4	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
211	IC	4	41.25	36.324	32.0	0.0	5.2	2.5	0.0	1.2	0.1	23.5	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
212	IC	4	41.00	36.341	31.9	0.0	5.2	2.5	0.0	1.2	0.1	23.5	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
213	IC	4	40.75	36.357	31.9	0.0	5.2	2.4	0.0	1.2	0.1	23.5	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
214	IC	4	40.50	36.374	31.9	0.0	5.2	2.4	0.0	1.2	0.1	23.6	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
215	IC	4	40.25	36.390	31.9	0.0	5.2	2.4	0.0	1.2	0.1	23.6	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67

EXPANDED CAPSULE SUMMARY FOR ICWW

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	NH3 SETT	DECA SETT	DECA SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
216	IC	4	40.00	36.406	31.9	0.0	5.2	2.4	0.0	1.2	0.1	23.7	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
217	IC	4	39.75	36.423	31.9	0.0	5.2	2.4	0.0	1.2	0.1	23.7	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
218	IC	4	39.50	36.439	31.9	0.0	5.2	2.4	0.0	1.2	0.1	23.8	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
219	IC	4	39.25	36.456	31.9	0.0	5.3	2.4	0.0	1.2	0.1	23.8	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
220	IC	4	39.00	36.472	31.9	0.0	5.3	2.4	0.0	1.2	0.1	23.8	0.0	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
DIVERSION # 221 (Houma Nav. Can.) LEAVES HERE																									
221	IC	4	38.75	12.678	31.9	0.0	5.3	2.4	0.0	1.2	0.1	23.9	0.0	12.19	190.0	0.005	0.005	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
222	IC	4	38.50	12.694	31.9	0.0	5.3	2.4	0.0	1.2	0.1	23.9	0.0	12.19	190.0	0.005	0.005	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
WASTELOAD # 223 (PS ICWW#1) ENTERS HERE																									
223	IC	4	38.25	12.711	31.9	0.0	5.4	2.4	0.0	1.2	0.1	24.0	0.0	12.19	190.0	0.005	0.005	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
224	IC	4	38.00	12.727	31.9	0.0	5.4	2.4	0.0	1.2	0.1	24.0	0.0	12.19	190.0	0.005	0.005	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.65
TRIBUTARY # 225 (Bayou Black) ENTERS HERE																									
405	IC	8	37.75	14.969	31.9	0.0	5.1	3.1	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	2.75
406	IC	8	37.50	14.990	31.9	0.0	5.1	3.2	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	2.75
407	IC	8	37.25	15.012	31.9	0.0	5.1	3.3	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	2.75
408	IC	8	37.00	15.033	31.9	0.0	5.2	3.3	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	2.75
409	IC	8	36.75	15.055	31.9	0.0	5.2	3.4	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	2.75
410	IC	8	36.50	15.076	31.9	0.0	5.2	3.4	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	2.75
411	IC	8	36.25	15.098	31.9	0.0	5.2	3.5	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	2.75
412	IC	8	36.00	15.119	31.9	0.0	5.1	3.5	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	2.75
WASTELOAD # 413 (Bayou Terrebonne W.) ENTERS HERE																									
DIVERSION # 413 (Bayou Terrebonne E.) LEAVES HERE																									
413	IC	8	35.75	15.593	31.9	0.0	4.9	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
414	IC	8	35.50	15.615	31.9	0.0	4.8	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
415	IC	8	35.25	15.636	31.9	0.0	4.8	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
416	IC	8	35.00	15.658	31.9	0.0	4.7	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
WASTELOAD # 417 (LA0111376) ENTERS HERE																									
417	IC	8	34.75	15.679	31.9	0.0	4.7	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
418	IC	8	34.50	15.700	31.9	0.0	4.7	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
419	IC	8	34.25	15.722	31.9	0.0	4.6	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
420	IC	8	34.00	15.743	31.9	0.0	4.6	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
421	IC	8	33.75	15.765	31.9	0.0	4.6	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75

422	IC	8	33.50	15.786	31.9	0.0	4.5	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
423	IC	8	33.25	15.808	31.9	0.0	4.5	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
424	IC	8	33.00	15.829	31.9	0.0	4.5	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
425	IC	8	32.75	15.850	31.9	0.0	4.4	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
426	IC	8	32.50	15.872	31.9	0.0	4.4	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
427	IC	8	32.25	15.893	31.9	0.0	4.4	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
428	IC	8	32.00	15.915	31.9	0.0	4.4	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
429	IC	8	31.75	15.936	31.9	0.0	4.3	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
430	IC	8	31.50	15.958	31.9	0.0	4.3	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
431	IC	8	31.25	15.979	31.9	0.0	4.3	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
432	IC	8	31.00	16.000	31.9	0.0	4.3	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
433	IC	8	30.75	16.022	31.9	0.0	4.3	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
434	IC	8	30.50	16.043	31.9	0.0	4.2	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	2.75
435	IC	8	30.25	16.065	31.9	0.0	4.2	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
436	IC	8	30.00	16.086	31.9	0.0	4.2	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
437	IC	8	29.75	16.107	31.9	0.0	4.2	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
438	IC	8	29.50	16.129	31.9	0.0	4.2	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
439	IC	8	29.25	16.150	31.9	0.0	4.2	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
440	IC	8	29.00	16.172	31.9	0.0	4.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
441	IC	8	28.75	16.193	31.9	0.0	4.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
442	IC	8	28.50	16.215	31.9	0.0	4.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
443	IC	8	28.25	16.236	31.9	0.0	4.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
444	IC	8	28.00	16.257	31.9	0.0	4.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
445	IC	8	27.75	16.279	31.9	0.0	4.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
446	IC	8	27.50	16.300	31.9	0.0	4.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
447	IC	8	27.25	16.322	31.9	0.0	4.0	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
448	IC	8	27.00	16.343	31.9	0.0	4.0	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
449	IC	8	26.75	16.365	31.9	0.0	4.0	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
450	IC	8	26.50	16.386	31.9	0.0	4.0	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
451	IC	8	26.25	16.407	31.9	0.0	4.0	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
452	IC	8	26.00	16.429	31.9	0.0	4.0	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
453	IC	8	25.75	16.450	31.9	0.0	4.0	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
454	IC	8	25.50	16.472	31.9	0.0	4.0	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
455	IC	8	25.25	16.493	31.9	0.0	4.0	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
456	IC	8	25.00	16.514	31.9	0.0	4.0	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
457	IC	8	24.75	16.536	31.9	0.0	3.9	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
458	IC	8	24.50	16.557	31.9	0.0	3.9	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
459	IC	8	24.25	16.579	31.9	0.0	3.9	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
460	IC	8	24.00	16.600	31.9	0.0	3.9	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
WASTELOAD # 461 (LA0104868) ENTERS HERE																									
461	IC	8	23.75	16.622	31.9	0.0	3.9	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
462	IC	8	23.50	16.643	31.9	0.0	3.9	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75

EXPANDED CAPSULE SUMMARY FOR ICWW

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	NH3 SETT	DECA SETT	DECA	SOD
		km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	g/m²/d
463	IC	8	23.25	16.664	31.9	0.0	3.9	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75

464	IC	8	23.00	16.686	31.9	0.0	3.9	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
465	IC	8	22.75	16.707	31.9	0.0	3.9	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
466	IC	8	22.50	16.729	31.9	0.0	3.9	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
WASTELOAD # 467 (LA0089648) ENTERS HERE																									
467	IC	8	22.25	16.754	31.9	0.0	3.9	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
468	IC	8	22.00	16.775	31.9	0.0	3.9	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
WASTELOAD # 469 (Company Canal North) ENTERS HERE																									
DIVERSION # 469 (Company Canal South) LEAVES HERE																									
469	IC	8	21.75	20.420	31.9	0.0	3.8	5.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
470	IC	8	21.50	20.442	31.9	0.0	3.7	4.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
471	IC	8	21.25	20.463	31.9	0.0	3.6	4.8	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.25	2.75
472	IC	8	21.00	20.485	31.9	0.0	3.6	4.8	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
473	IC	8	20.75	20.506	31.9	0.0	3.5	4.7	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
474	IC	8	20.50	20.528	31.9	0.0	3.5	4.6	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
475	IC	8	20.25	20.549	31.9	0.0	3.4	4.6	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
476	IC	8	20.00	20.570	31.9	0.0	3.4	4.5	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
477	IC	8	19.75	20.592	31.9	0.0	3.3	4.5	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
478	IC	8	19.50	20.613	31.9	0.0	3.3	4.4	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
479	IC	8	19.25	20.635	31.9	0.0	3.3	4.4	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
480	IC	8	19.00	20.656	31.9	0.0	3.2	4.4	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
481	IC	8	18.75	20.678	31.9	0.0	3.2	4.3	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
482	IC	8	18.50	20.699	31.9	0.0	3.2	4.3	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
483	IC	8	18.25	20.720	31.9	0.0	3.2	4.3	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
484	IC	8	18.00	20.742	31.9	0.0	3.2	4.2	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
485	IC	8	17.75	20.763	31.9	0.0	3.1	4.2	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
486	IC	8	17.50	20.785	31.9	0.0	3.1	4.2	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
487	IC	8	17.25	20.806	31.9	0.0	3.1	4.2	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
488	IC	8	17.00	20.827	31.9	0.0	3.1	4.1	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
489	IC	8	16.75	20.849	31.9	0.0	3.1	4.1	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
490	IC	8	16.50	20.870	31.9	0.0	3.1	4.1	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
491	IC	8	16.25	20.892	31.9	0.0	3.1	4.1	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
492	IC	8	16.00	20.913	31.9	0.0	3.1	4.1	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
WASTELOAD # 493 (St Louis Canal) ENTERS HERE																									
493	IC	8	15.75	21.388	31.9	0.0	3.1	4.2	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
494	IC	8	15.50	21.409	31.9	0.0	3.1	4.1	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
495	IC	8	15.25	21.430	31.9	0.0	3.1	4.1	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
496	IC	8	15.00	21.452	31.9	0.0	3.1	4.1	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
497	IC	8	14.75	21.473	31.9	0.0	3.1	4.1	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
498	IC	8	14.50	21.495	31.9	0.0	3.1	4.1	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
499	IC	8	14.25	21.516	31.9	0.0	3.1	4.1	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
500	IC	8	14.00	21.538	31.9	0.0	3.1	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
501	IC	8	13.75	21.559	31.9	0.0	3.0	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
502	IC	8	13.50	21.580	31.9	0.0	3.1	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
503	IC	8	13.25	21.602	31.9	0.0	3.1	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
504	IC	8	13.00	21.623	31.9	0.0	3.1	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
505	IC	8	12.75	21.645	31.9	0.0	3.1	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
506	IC	8	12.50	21.666	31.9	0.0	3.1	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
507	IC	8	12.25	21.687	31.9	0.0	3.1	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
508	IC	8	12.00	21.709	31.9	0.0	3.1	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
509	IC	8	11.75	21.730	31.9	0.0	3.1	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75

510	IC	8	11.50	21.752	31.9	0.0	3.1	4.0	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
511	IC	8	11.25	21.773	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
512	IC	8	11.00	21.795	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
513	IC	8	10.75	21.816	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
514	IC	8	10.50	21.837	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
515	IC	8	10.25	21.859	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
516	IC	8	10.00	21.880	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
517	IC	8	9.75	21.902	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
518	IC	8	9.50	21.923	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
519	IC	8	9.25	21.945	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
520	IC	8	9.00	21.966	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
521	IC	8	8.75	21.987	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
522	IC	8	8.50	22.009	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
523	IC	8	8.25	22.030	31.9	0.0	3.1	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
524	IC	8	8.00	22.052	31.9	0.0	3.2	3.9	0.0	1.2	0.1	24.0	0.0	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
WASTELOAD # 525 (Bayou Bleu North) ENTERS HERE																									
525	IC	8	7.75	23.291	31.9	0.0	3.2	4.1	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
526	IC	8	7.50	23.312	31.9	0.0	3.1	4.1	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
527	IC	8	7.25	23.333	31.9	0.0	3.1	4.1	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
528	IC	8	7.00	23.355	31.9	0.0	3.1	4.1	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
529	IC	8	6.75	23.376	31.9	0.0	3.1	4.1	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
530	IC	8	6.50	23.398	31.9	0.0	3.1	4.1	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
531	IC	8	6.25	23.419	31.9	0.0	3.1	4.0	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75

EXPANDED CAPSULE SUMMARY FOR ICWW

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	NH3 SETT	DECA SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
532	IC	8	6.00	23.440	31.9	0.0	3.1	4.0	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
533	IC	8	5.75	23.462	31.9	0.0	3.1	4.0	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
534	IC	8	5.50	23.483	31.9	0.0	3.1	4.0	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
535	IC	8	5.25	23.505	31.9	0.0	3.1	4.0	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
536	IC	8	5.00	23.526	31.9	0.0	3.1	4.0	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
537	IC	8	4.75	23.548	31.9	0.0	3.1	4.0	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
538	IC	8	4.50	23.569	31.9	0.0	3.1	4.0	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
539	IC	8	4.25	23.590	31.9	0.0	3.1	4.0	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
540	IC	8	4.00	23.612	31.9	0.0	3.1	4.0	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
DIVERSION # 541 (Bayou Bleu South) LEAVES HERE																									
541	IC	8	3.75	23.237	31.9	0.0	3.1	4.0	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
542	IC	8	3.50	23.258	31.9	0.0	3.1	4.0	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.23	2.75
543	IC	8	3.25	23.280	31.9	0.0	3.1	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
544	IC	8	3.00	23.301	31.9	0.0	3.1	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
545	IC	8	2.75	23.323	31.9	0.0	3.1	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
546	IC	8	2.50	23.344	31.9	0.0	3.2	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
547	IC	8	2.25	23.365	31.9	0.0	3.2	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
548	IC	8	2.00	23.387	31.9	0.0	3.2	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
WASTELOAD # 549 (PS ICWW#2) ENTERS HERE																									
549	IC	8	1.75	23.408	31.9	0.0	3.2	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75

550	IC	8	1.50	23.430	31.9	0.0	3.2	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
551	IC	8	1.25	23.451	31.9	0.0	3.2	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
552	IC	8	1.00	23.473	31.9	0.0	3.2	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
553	IC	8	0.75	23.494	31.9	0.0	3.2	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
554	IC	8	0.50	23.515	31.9	0.0	3.2	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
555	IC	8	0.25	23.537	31.9	0.0	3.2	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75
556	IC	8	0.00	23.558	31.9	0.0	3.2	3.9	0.0	1.1	0.1	24.0	0.0	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	2.75

EXPANDED CAPSULE SUMMARY FOR Bayou Black

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	SETT DECA	NH3 SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
225	BB	5	44.75	0.011	32.1	0.0	10.6	0.5	0.0	0.2	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
226	BB	5	44.50	0.015	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
227	BB	5	44.25	0.019	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
228	BB	5	44.00	0.023	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
229	BB	5	43.75	0.027	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
230	BB	5	43.50	0.031	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
231	BB	5	43.25	0.035	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
232	BB	5	43.00	0.039	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
233	BB	5	42.75	0.043	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
234	BB	5	42.50	0.047	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
235	BB	5	42.25	0.051	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
236	BB	5	42.00	0.055	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
237	BB	5	41.75	0.059	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
238	BB	5	41.50	0.063	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
239	BB	5	41.25	0.067	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
240	BB	5	41.00	0.071	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
241	BB	5	40.75	0.075	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
242	BB	5	40.50	0.079	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
243	BB	5	40.25	0.083	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
244	BB	5	40.00	0.087	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
245	BB	5	39.75	0.091	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
246	BB	5	39.50	0.095	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
247	BB	5	39.25	0.099	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
248	BB	5	39.00	0.103	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
249	BB	5	38.75	0.107	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.0	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
250	BB	6	38.50	0.110	32.0	0.0	9.0	1.8	0.0	0.2	0.0	25.7	0.0	1.16	31.2	0.003	0.003	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
251	BB	6	38.25	0.113	32.0	0.0	7.7	2.9	0.0	0.3	0.0	26.4	0.0	1.16	31.2	0.003	0.003	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
252	BB	6	38.00	0.116	32.0	0.0	6.9	3.8	0.0	0.4	0.0	27.1	0.0	1.16	31.2	0.003	0.003	7.3	0.751	0.26	0.00	0.00	0.00	0.44	1.49
253	BB	6	37.75	0.118	32.0	0.0	6.4	4.4	0.0	0.4	0.0	27.9	0.0	1.16	31.2	0.003	0.003	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
254	BB	6	37.50	0.121	32.0	0.0	6.1	4.9	0.0	0.5	0.0	28.6	0.0	1.16	31.2	0.003	0.003	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
255	BB	6	37.25	0.124	32.0	0.0	5.8	5.3	0.0	0.5	0.0	29.3	0.0	1.16	31.2	0.003	0.003	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
256	BB	6	37.00	0.127	32.0	0.0	5.6	5.6	0.0	0.6	0.0	30.0	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
257	BB	6	36.75	0.130	32.0	0.0	5.5	5.9	0.0	0.6	0.0	30.7	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
258	BB	6	36.50	0.133	32.0	0.0	5.4	6.1	0.0	0.7	0.0	31.4	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
259	BB	6	36.25	0.136	32.0	0.0	5.4	6.3	0.0	0.7	0.0	32.1	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49

WASTELOAD # 260 (LAG531469) ENTERS HERE

260	BB	6	36.00	0.139	32.0	0.0	5.3	6.4	0.0	0.8	0.0	32.9	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
261	BB	6	35.75	0.141	32.0	0.0	5.3	6.5	0.0	0.8	0.0	33.6	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
262	BB	6	35.50	0.144	32.0	0.0	5.3	6.6	0.0	0.8	0.0	34.3	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
263	BB	6	35.25	0.147	32.0	0.0	5.3	6.6	0.0	0.9	0.0	35.0	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
264	BB	6	35.00	0.150	32.0	0.0	5.3	6.7	0.0	0.9	0.1	35.7	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
265	BB	6	34.75	0.153	32.0	0.0	5.3	6.7	0.0	0.9	0.1	36.4	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
266	BB	6	34.50	0.156	32.0	0.0	5.3	6.8	0.0	1.0	0.1	37.1	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
267	BB	6	34.25	0.159	32.0	0.0	5.3	6.8	0.0	1.0	0.1	37.9	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
WASTELOAD # 268 (LAG540726) ENTERS HERE																									
268	BB	6	34.00	0.161	32.0	0.0	5.3	6.8	0.0	1.0	0.1	38.6	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
269	BB	6	33.75	0.164	32.0	0.0	5.4	6.8	0.0	1.0	0.1	39.3	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
270	BB	6	33.50	0.167	32.0	0.0	5.4	6.9	0.0	1.1	0.1	40.0	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
271	BB	6	33.25	0.170	32.0	0.0	5.4	6.9	0.0	1.1	0.1	40.7	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
272	BB	6	33.00	0.173	32.0	0.0	5.5	6.9	0.0	1.1	0.1	41.4	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
273	BB	6	32.75	0.176	32.0	0.0	5.5	6.9	0.0	1.1	0.1	42.1	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
274	BB	6	32.50	0.179	32.0	0.0	5.5	6.9	0.0	1.2	0.1	42.9	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
275	BB	6	32.25	0.181	32.0	0.0	5.6	6.9	0.0	1.2	0.1	43.6	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
276	BB	6	32.00	0.184	32.0	0.0	5.6	6.9	0.0	1.2	0.1	44.3	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
277	BB	6	31.75	0.187	32.0	0.0	5.6	6.9	0.0	1.2	0.1	45.0	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
WASTELOAD # 278 (PS Black Bayou#1) ENTERS HERE																									
278	BB	6	31.50	0.192	32.0	0.0	5.6	7.0	0.0	1.2	0.1	45.7	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
279	BB	6	31.25	0.194	32.0	0.0	5.7	7.0	0.0	1.2	0.1	46.4	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
280	BB	6	31.00	0.197	32.0	0.0	5.7	7.0	0.0	1.3	0.1	47.1	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
281	BB	6	30.75	0.200	32.0	0.0	5.7	7.0	0.0	1.3	0.1	47.9	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
282	BB	6	30.50	0.203	32.0	0.0	5.8	7.0	0.0	1.3	0.1	48.6	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
283	BB	6	30.25	0.206	32.0	0.0	5.8	7.0	0.0	1.3	0.1	49.3	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
284	BB	6	30.00	0.209	32.0	0.0	5.8	7.0	0.0	1.3	0.1	50.0	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
285	BB	7	29.75	0.210	32.0	0.0	5.4	6.5	0.0	1.3	0.1	49.8	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
286	BB	7	29.50	0.212	32.0	0.0	5.2	6.1	0.0	1.3	0.1	49.6	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
287	BB	7	29.25	0.213	32.0	0.0	5.1	5.7	0.0	1.3	0.1	49.3	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
288	BB	7	29.00	0.214	32.0	0.0	5.0	5.4	0.0	1.3	0.1	49.1	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
289	BB	7	28.75	0.216	32.0	0.0	4.9	5.1	0.0	1.3	0.1	48.9	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
290	BB	7	28.50	0.217	32.0	0.0	5.0	4.9	0.0	1.3	0.1	48.7	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
291	BB	7	28.25	0.219	32.0	0.0	5.0	4.7	0.0	1.3	0.1	48.5	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
WASTELOAD # 292 (PS Black Bayou#2) ENTERS HERE																									
292	BB	7	28.00	0.222	32.0	0.0	5.0	4.6	0.0	1.2	0.1	48.3	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
293	BB	7	27.75	0.224	32.0	0.0	5.0	4.5	0.0	1.2	0.1	48.0	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
294	BB	7	27.50	0.225	32.0	0.0	5.0	4.3	0.0	1.2	0.1	47.8	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77

EXPANDED CAPSULE SUMMARY FOR Bayou Black

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN VELO	DO SAT	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
		km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L		1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
295	BB	7	27.25	0.226	32.0	0.0	5.1	4.2	0.0	1.2	0.1	47.6	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
296	BB	7	27.00	0.228	32.0	0.0	5.1	4.1	0.0	1.2	0.1	47.4	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
297	BB	7	26.75	0.229	32.0	0.0	5.1	4.0	0.0	1.2	0.1	47.2	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
298	BB	7	26.50	0.231	32.0	0.0	5.1	3.9	0.0	1.2	0.1	47.0	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
299	BB	7	26.25	0.232	32.0	0.0	5.2	3.8	0.0	1.2	0.1	46.8	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77

300	BB	7	26.00	0.234	32.0	0.0	5.2	3.8	0.0	1.2	0.1	46.5	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
301	BB	7	25.75	0.235	32.0	0.0	5.2	3.7	0.0	1.2	0.1	46.3	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
302	BB	7	25.50	0.236	32.0	0.0	5.2	3.7	0.0	1.2	0.1	46.1	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
303	BB	7	25.25	0.238	32.0	0.0	5.2	3.6	0.0	1.2	0.1	45.9	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
304	BB	7	25.00	0.239	32.0	0.0	5.3	3.6	0.0	1.2	0.1	45.7	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
305	BB	7	24.75	0.241	32.0	0.0	5.3	3.5	0.0	1.2	0.1	45.5	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
306	BB	7	24.50	0.242	32.0	0.0	5.3	3.5	0.0	1.2	0.1	45.2	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
307	BB	7	24.25	0.244	32.0	0.0	5.3	3.5	0.0	1.2	0.1	45.0	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
308	BB	7	24.00	0.245	32.0	0.0	5.3	3.5	0.0	1.2	0.1	44.8	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
309	BB	7	23.75	0.246	32.0	0.0	5.3	3.4	0.0	1.1	0.1	44.6	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
310	BB	7	23.50	0.248	32.0	0.0	5.3	3.4	0.0	1.1	0.1	44.4	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
311	BB	7	23.25	0.249	32.0	0.0	5.3	3.4	0.0	1.1	0.1	44.2	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
WASTELOAD # 312 (LAG541223) ENTERS HERE																									
312	BB	7	23.00	0.251	32.0	0.0	5.3	3.5	0.0	1.1	0.1	43.9	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
313	BB	7	22.75	0.253	32.0	0.0	5.2	3.5	0.0	1.1	0.1	43.7	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
314	BB	7	22.50	0.254	32.0	0.0	5.2	3.4	0.0	1.1	0.1	43.5	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
315	BB	7	22.25	0.256	32.0	0.0	5.2	3.4	0.0	1.1	0.1	43.3	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
316	BB	7	22.00	0.257	32.0	0.0	5.2	3.4	0.0	1.1	0.1	43.1	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
317	BB	7	21.75	0.259	32.0	0.0	5.2	3.4	0.0	1.1	0.1	42.8	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
318	BB	7	21.50	0.260	32.0	0.0	5.2	3.4	0.0	1.1	0.1	42.6	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
319	BB	7	21.25	0.261	32.0	0.0	5.2	3.4	0.0	1.1	0.1	42.4	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
320	BB	7	21.00	0.263	32.0	0.0	5.2	3.4	0.0	1.1	0.1	42.2	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
321	BB	7	20.75	0.264	32.0	0.0	5.2	3.4	0.0	1.1	0.1	42.0	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
322	BB	7	20.50	0.266	32.0	0.0	5.2	3.4	0.0	1.1	0.1	41.8	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
323	BB	7	20.25	0.267	32.0	0.0	5.2	3.4	0.0	1.1	0.1	41.5	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
324	BB	7	20.00	0.269	32.0	0.0	5.2	3.3	0.0	1.1	0.1	41.3	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
325	BB	7	19.75	0.270	32.0	0.0	5.2	3.3	0.0	1.1	0.1	41.1	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
326	BB	7	19.50	0.272	32.0	0.0	5.1	3.3	0.0	1.1	0.1	40.9	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
327	BB	7	19.25	0.273	32.0	0.0	5.1	3.3	0.0	1.1	0.1	40.7	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
328	BB	7	19.00	0.274	32.0	0.0	5.1	3.3	0.0	1.1	0.1	40.5	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
329	BB	7	18.75	0.276	32.0	0.0	5.1	3.3	0.0	1.1	0.1	40.2	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
330	BB	7	18.50	0.277	32.0	0.0	5.1	3.3	0.0	1.1	0.1	40.0	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
WASTELOAD # 331 (PS Black Bayou#3) ENTERS HERE																									
331	BB	7	18.25	0.279	32.0	0.0	5.1	3.3	0.0	1.1	0.1	39.8	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
332	BB	7	18.00	0.280	32.0	0.0	5.1	3.3	0.0	1.1	0.1	39.6	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
333	BB	7	17.75	0.282	32.0	0.0	5.1	3.3	0.0	1.1	0.1	39.4	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
334	BB	7	17.50	0.283	32.0	0.0	5.1	3.3	0.0	1.1	0.1	39.2	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
335	BB	7	17.25	0.285	32.0	0.0	5.0	3.3	0.0	1.1	0.1	39.0	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
336	BB	7	17.00	0.286	32.0	0.0	5.0	3.3	0.0	1.0	0.1	38.7	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
337	BB	7	16.75	0.287	32.0	0.0	5.0	3.3	0.0	1.0	0.1	38.5	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
338	BB	7	16.50	0.289	32.0	0.0	5.0	3.3	0.0	1.0	0.1	38.3	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
WASTELOAD # 339 (LAG541317) ENTERS HERE																									
339	BB	7	16.25	0.291	32.0	0.0	5.0	3.4	0.0	1.0	0.1	38.1	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
340	BB	7	16.00	0.292	32.0	0.0	5.0	3.4	0.0	1.0	0.1	37.9	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
341	BB	7	15.75	0.294	32.0	0.0	5.0	3.3	0.0	1.0	0.1	37.7	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
342	BB	7	15.50	0.295	32.0	0.0	5.0	3.3	0.0	1.0	0.1	37.4	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
343	BB	7	15.25	0.296	32.0	0.0	4.9	3.3	0.0	1.0	0.1	37.2	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
344	BB	7	15.00	0.298	32.0	0.0	4.9	3.3	0.0	1.0	0.1	37.0	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
345	BB	7	14.75	0.299	31.9	0.0	4.9	3.3	0.0	1.0	0.1	36.8	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
346	BB	7	14.50	0.301	31.9	0.0	4.9	3.3	0.0	1.0	0.1	36.6	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76

347	BB	7	14.25	0.302	31.9	0.0	4.9	3.3	0.0	1.0	0.1	36.3	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
348	BB	7	14.00	0.304	31.9	0.0	4.9	3.3	0.0	1.0	0.1	36.1	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
349	BB	7	13.75	0.305	31.9	0.0	4.9	3.3	0.0	1.0	0.1	35.9	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
350	BB	7	13.50	0.307	31.9	0.0	4.9	3.3	0.0	1.0	0.1	35.7	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
351	BB	7	13.25	0.308	31.9	0.0	4.9	3.3	0.0	1.0	0.1	35.5	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76

WASTELOAD # 352 (LA0111236) ENTERS HERE

352	BB	7	13.00	0.315	31.9	0.0	4.7	3.7	0.0	1.0	0.4	35.3	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
353	BB	7	12.75	0.316	31.9	0.0	4.5	3.6	0.0	1.0	0.3	35.0	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
354	BB	7	12.50	0.318	31.9	0.0	4.5	3.6	0.0	1.0	0.3	34.8	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
355	BB	7	12.25	0.319	31.9	0.0	4.4	3.6	0.0	1.0	0.3	34.6	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
356	BB	7	12.00	0.321	31.9	0.0	4.4	3.6	0.0	1.0	0.3	34.4	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
357	BB	7	11.75	0.322	31.9	0.0	4.4	3.5	0.0	1.0	0.2	34.2	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
358	BB	7	11.50	0.324	31.9	0.0	4.4	3.5	0.0	1.0	0.2	34.0	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
359	BB	7	11.25	0.325	31.9	0.0	4.4	3.5	0.0	1.0	0.2	33.8	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
360	BB	7	11.00	0.327	31.9	0.0	4.4	3.5	0.0	1.0	0.2	33.5	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
361	BB	7	10.75	0.328	31.9	0.0	4.4	3.5	0.0	1.0	0.2	33.3	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
362	BB	7	10.50	0.329	31.9	0.0	4.4	3.5	0.0	1.0	0.2	33.1	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
363	BB	7	10.25	0.331	31.9	0.0	4.4	3.4	0.0	1.0	0.1	32.9	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
364	BB	7	10.00	0.332	31.9	0.0	4.4	3.4	0.0	1.0	0.1	32.7	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76

EXPANDED CAPSULE SUMMARY FOR Bayou Black

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN VELO	DO SAT	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L		m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
365	BB	7	9.75	0.334	31.9	0.0	4.4	3.4	0.0	1.0	0.1	32.5	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
366	BB	7	9.50	0.335	31.9	0.0	4.4	3.4	0.0	1.0	0.1	32.2	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
367	BB	7	9.25	0.337	31.9	0.0	4.4	3.4	0.0	1.0	0.1	32.0	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
368	BB	7	9.00	0.338	31.9	0.0	4.4	3.4	0.0	1.0	0.1	31.8	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76

WASTELOAD # 369 (PS Hanson Canal) ENTERS HERE

369	BB	7	8.75	0.341	31.9	0.0	4.5	3.4	0.0	1.0	0.1	31.6	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
370	BB	7	8.50	0.342	31.9	0.0	4.5	3.4	0.0	1.0	0.1	31.4	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
371	BB	7	8.25	0.344	31.9	0.0	4.5	3.4	0.0	1.0	0.1	31.1	0.0	1.16	31.2	0.010	0.010	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76

WASTELOAD # 372 (LA0074331) ENTERS HERE

372	BB	7	8.00	0.345	31.9	0.0	4.5	3.4	0.0	1.0	0.1	30.9	0.0	1.16	31.2	0.010	0.010	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76

WASTELOAD # 373 (Minors Canal) ENTERS HERE

373	BB	7	7.75	0.873	31.9	0.0	7.7	5.6	0.0	1.2	0.1	30.7	0.0	1.16	31.2	0.024	0.024	7.3	0.750	0.29	0.00	0.00	0.00	0.44	2.75
374	BB	7	7.50	0.875	31.9	0.0	7.3	5.5	0.0	1.2	0.1	30.5	0.0	1.16	31.2	0.024	0.024	7.3	0.750	0.29	0.00	0.00	0.00	0.44	2.75
375	BB	7	7.25	0.876	31.9	0.0	7.0	5.4	0.0	1.2	0.1	30.3	0.0	1.16	31.2	0.024	0.024	7.3	0.750	0.29	0.00	0.00	0.00	0.44	2.75
376	BB	7	7.00	0.878	31.9	0.0	6.7	5.4	0.0	1.2	0.1	30.1	0.0	1.16	31.2	0.024	0.024	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
377	BB	7	6.75	0.879	31.9	0.0	6.5	5.3	0.0	1.2	0.1	29.9	0.0	1.16	31.2	0.024	0.024	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
378	BB	7	6.50	0.881	31.9	0.0	6.2	5.2	0.0	1.2	0.1	29.6	0.0	1.16	31.2	0.024	0.024	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
379	BB	7	6.25	0.882	31.9	0.0	6.0	5.2	0.0	1.2	0.1	29.4	0.0	1.16	31.2	0.024	0.024	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
380	BB	7	6.00	0.883	31.9	0.0	5.8	5.1	0.0	1.2	0.1	29.2	0.0	1.16	31.2	0.024	0.024	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
381	BB	7	5.75	0.885	31.9	0.0	5.7	5.0	0.0	1.2	0.1	29.0	0.0	1.16	31.2	0.024	0.024	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
382	BB	7	5.50	0.886	31.9	0.0	5.5	5.0	0.0	1.2	0.1	28.8	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
383	BB	7	5.25	0.888	31.9	0.0	5.4	4.9	0.0	1.2	0.1	28.5	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
384	BB	7	5.00	0.889	31.9	0.0	5.2	4.9	0.0	1.2	0.1	28.3	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.75
385	BB	7	4.75	0.891	31.9	0.0	5.1	4.8	0.0	1.2	0.1	28.1	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.75

386	BB	7	4.50	0.892	31.9	0.0	5.0	4.8	0.0	1.2	0.1	27.9	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.75
387	BB	7	4.25	0.893	31.9	0.0	4.9	4.7	0.0	1.2	0.1	27.7	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.75
388	BB	7	4.00	0.895	31.9	0.0	4.8	4.7	0.0	1.2	0.1	27.5	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.75
389	BB	7	3.75	0.896	31.9	0.0	4.7	4.6	0.0	1.2	0.1	27.2	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
390	BB	7	3.50	0.898	31.9	0.0	4.7	4.6	0.0	1.2	0.1	27.0	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
391	BB	7	3.25	0.899	31.9	0.0	4.6	4.5	0.0	1.2	0.1	26.8	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
392	BB	7	3.00	0.901	31.9	0.0	4.5	4.5	0.0	1.2	0.1	26.6	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
393	BB	7	2.75	0.902	31.9	0.0	4.5	4.4	0.0	1.2	0.1	26.4	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
394	BB	7	2.50	0.903	31.9	0.0	4.4	4.4	0.0	1.2	0.1	26.2	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
395	BB	7	2.25	0.905	31.9	0.0	4.4	4.4	0.0	1.2	0.1	25.9	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
396	BB	7	2.00	0.906	31.9	0.0	4.3	4.3	0.0	1.2	0.1	25.7	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.75
397	BB	7	1.75	0.908	31.9	0.0	4.3	4.3	0.0	1.2	0.1	25.5	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.75
398	BB	7	1.50	0.909	31.9	0.0	4.2	4.3	0.0	1.2	0.1	25.3	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.75
399	BB	7	1.25	0.911	31.9	0.0	4.2	4.2	0.0	1.2	0.1	25.1	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.75
400	BB	7	1.00	0.912	31.9	0.0	4.2	4.2	0.0	1.2	0.1	24.9	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.75
WASTELOAD # 401 (Little Bayou Black) ENTERS HERE																									
401	BB	7	0.75	2.216	31.9	0.0	3.1	7.2	0.0	1.4	0.1	24.6	0.0	1.16	31.2	0.061	0.061	7.3	0.750	0.29	0.00	0.00	0.00	0.36	2.75
WASTELOAD # 402 (PS Lil Bayou Black) ENTERS HERE																									
402	BB	7	0.50	2.218	31.9	0.0	3.0	7.2	0.0	1.4	0.1	24.4	0.0	1.16	31.2	0.061	0.061	7.3	0.750	0.29	0.00	0.00	0.00	0.36	2.75
403	BB	7	0.25	2.219	31.9	0.0	3.0	7.1	0.0	1.4	0.1	24.2	0.0	1.16	31.2	0.061	0.061	7.3	0.750	0.29	0.00	0.00	0.00	0.36	2.75
404	BB	7	0.00	2.221	31.9	0.0	3.0	7.0	0.0	1.4	0.1	24.0	0.0	1.16	31.2	0.061	0.061	7.3	0.750	0.29	0.00	0.00	0.00	0.36	2.75

SPECIAL REPORT: ICWW
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS #/100mL	CHL A *	MACRO	COLI	NCM
1	93.750	31.22	0.0	0.0	0.0	6.32	2.55	0.00	2.55	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
2	93.500	31.24	0.0	0.0	0.0	6.48	2.36	0.00	2.36	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
3	93.250	31.26	0.0	0.0	0.0	6.59	2.32	0.00	2.32	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
4	93.000	31.28	0.0	0.0	0.0	6.64	2.31	0.00	2.31	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
5	92.750	31.31	0.0	0.0	0.0	6.67	2.31	0.00	2.31	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
6	92.500	31.33	0.0	0.0	0.0	6.68	2.31	0.00	2.31	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
7	92.250	31.35	0.0	0.0	0.0	6.69	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
8	92.000	31.37	0.0	0.0	0.0	6.69	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
9	91.750	31.39	0.0	0.0	0.0	6.69	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
10	91.500	31.41	0.0	0.0	0.0	6.70	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
11	91.250	31.43	0.0	0.0	0.0	6.70	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
12	91.000	31.45	0.0	0.0	0.0	6.70	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
13	90.750	31.47	0.0	0.0	0.0	6.70	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
14	90.500	31.49	0.0	0.0	0.0	6.71	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
15	90.250	31.52	0.0	0.0	0.0	6.71	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
16	90.000	31.54	0.0	0.0	0.0	6.71	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
17	89.750	31.56	0.0	0.0	0.0	6.72	2.28	0.00	2.28	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
18	89.500	31.58	0.0	0.0	0.0	6.72	2.28	0.00	2.28	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
19	89.250	31.60	0.0	0.0	0.0	6.72	2.28	0.00	2.28	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
20	89.000	31.62	0.0	0.0	0.0	6.72	2.28	0.00	2.28	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
21	88.750	31.64	0.0	0.0	0.0	6.73	2.27	0.00	2.27	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00

22	88.500	31.66	0.0	0.0	0.0	6.73	2.27	0.00	2.27	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
23	88.250	31.68	0.0	0.0	0.0	6.73	2.27	0.00	2.27	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
24	88.000	31.71	0.0	0.0	0.0	6.74	2.27	0.00	2.27	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
25	87.750	31.73	0.0	0.0	0.0	6.74	2.27	0.00	2.27	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
26	87.500	31.75	0.0	0.0	0.0	6.74	2.26	0.00	2.26	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
27	87.250	31.77	0.0	0.0	0.0	6.74	2.26	0.00	2.26	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
28	87.000	31.79	0.0	0.0	0.0	6.75	2.26	0.00	2.26	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
29	86.750	31.81	0.0	0.0	0.0	6.75	2.26	0.00	2.26	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
30	86.500	31.83	0.0	0.0	0.0	6.75	2.25	0.00	2.25	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
31	86.250	31.85	0.0	0.0	0.0	6.75	2.25	0.00	2.25	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
32	86.000	31.87	0.0	0.0	0.0	6.76	2.25	0.00	2.25	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
33	85.750	31.89	0.0	0.0	0.0	6.76	2.25	0.00	2.25	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
34	85.500	31.92	0.0	0.0	0.0	6.76	2.25	0.00	2.25	0.00	1.30	0.12	0.00	1.41	0.00	20.0	0.0	0.	0.00
35	85.250	31.94	0.0	0.0	0.0	6.77	2.24	0.00	2.24	0.00	1.30	0.12	0.00	1.41	0.00	20.0	0.0	0.	0.00
36	85.000	31.96	0.0	0.0	0.0	6.77	2.24	0.00	2.24	0.00	1.30	0.12	0.00	1.41	0.00	20.0	0.0	0.	0.00
37	84.750	31.98	0.0	0.0	0.0	6.77	2.24	0.00	2.24	0.00	1.30	0.12	0.00	1.41	0.00	20.0	0.0	0.	0.00
38	84.500	32.00	0.0	0.0	0.0	6.77	2.24	0.00	2.24	0.00	1.30	0.12	0.00	1.41	0.00	20.0	0.0	0.	0.00
39	84.250	32.00	0.0	0.0	0.0	4.39	4.82	0.00	4.82	0.00	1.59	0.10	0.00	1.69	0.00	20.0	0.0	0.	0.00
40	84.000	32.00	0.0	0.0	0.0	4.32	4.72	0.00	4.72	0.00	1.58	0.10	0.00	1.69	0.00	20.0	0.0	0.	0.00
41	83.750	32.01	0.0	0.0	0.0	4.26	4.62	0.00	4.62	0.00	1.58	0.11	0.00	1.69	0.00	20.0	0.0	0.	0.00
42	83.500	32.01	0.0	0.0	0.0	4.20	4.53	0.00	4.53	0.00	1.58	0.11	0.00	1.69	0.00	20.0	0.0	0.	0.00
43	83.250	32.01	0.0	0.0	0.0	4.15	4.44	0.00	4.44	0.00	1.57	0.11	0.00	1.68	0.00	20.0	0.0	0.	0.00
44	83.000	32.01	0.0	0.0	0.0	4.10	4.36	0.00	4.36	0.00	1.57	0.11	0.00	1.68	0.00	20.0	0.0	0.	0.00
45	82.750	32.01	0.0	0.0	0.0	4.06	4.27	0.00	4.27	0.00	1.56	0.11	0.00	1.68	0.00	20.0	0.0	0.	0.00
46	82.500	32.02	0.0	0.0	0.0	4.01	4.19	0.00	4.19	0.00	1.56	0.12	0.00	1.68	0.00	20.0	0.0	0.	0.00
47	82.250	32.02	0.0	0.0	0.0	3.98	4.12	0.00	4.12	0.00	1.56	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
48	82.000	32.02	0.0	0.0	0.0	3.94	4.05	0.00	4.05	0.00	1.55	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
49	81.750	32.02	0.0	0.0	0.0	3.91	3.98	0.00	3.98	0.00	1.55	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
50	81.500	32.02	0.0	0.0	0.0	3.88	3.91	0.00	3.91	0.00	1.55	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
51	81.250	32.03	0.0	0.0	0.0	3.85	3.85	0.00	3.85	0.00	1.54	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
52	81.000	32.03	0.0	0.0	0.0	3.83	3.79	0.00	3.79	0.00	1.54	0.12	0.00	1.66	0.00	20.0	0.0	0.	0.00
53	80.750	32.03	0.0	0.0	0.0	3.81	3.73	0.00	3.73	0.00	1.53	0.13	0.00	1.66	0.00	20.0	0.0	0.	0.00
54	80.500	32.03	0.0	0.0	0.0	3.79	3.67	0.00	3.67	0.00	1.53	0.13	0.00	1.66	0.00	20.0	0.0	0.	0.00
55	80.250	32.03	0.0	0.0	0.0	3.77	3.62	0.00	3.62	0.00	1.53	0.13	0.00	1.65	0.00	20.0	0.0	0.	0.00
56	80.000	32.03	0.0	0.0	0.0	3.76	3.56	0.00	3.56	0.00	1.52	0.13	0.00	1.65	0.00	20.0	0.0	0.	0.00
57	79.750	32.04	0.0	0.0	0.0	3.75	3.52	0.00	3.52	0.00	1.52	0.13	0.00	1.65	0.00	20.0	0.0	0.	0.00
58	79.500	32.04	0.0	0.0	0.0	3.72	3.35	0.00	3.35	0.00	1.51	0.13	0.00	1.64	0.00	20.0	0.0	0.	0.00
59	79.250	32.04	0.0	0.0	0.0	3.72	3.21	0.00	3.21	0.00	1.49	0.14	0.00	1.63	0.00	20.0	0.0	0.	0.00
60	79.000	32.04	0.0	0.0	0.0	3.74	3.09	0.00	3.09	0.00	1.48	0.14	0.00	1.62	0.00	20.0	0.0	0.	0.00
61	78.750	32.04	0.0	0.0	0.0	3.77	2.99	0.00	2.99	0.00	1.47	0.14	0.00	1.61	0.00	20.0	0.0	0.	0.00
62	78.500	32.05	0.0	0.0	0.0	3.82	2.90	0.00	2.90	0.00	1.45	0.14	0.00	1.59	0.00	20.0	0.0	0.	0.00
63	78.250	32.05	0.0	0.0	0.0	3.87	2.83	0.00	2.83	0.00	1.44	0.14	0.00	1.58	0.00	20.0	0.0	0.	0.00
64	78.000	32.05	0.0	0.0	0.0	3.93	2.76	0.00	2.76	0.00	1.43	0.14	0.00	1.57	0.00	20.0	0.0	0.	0.00
65	77.750	32.05	0.0	0.0	0.0	3.99	2.70	0.00	2.70	0.00	1.42	0.14	0.00	1.56	0.00	20.0	0.0	0.	0.00
66	77.500	32.05	0.0	0.0	0.0	4.06	2.66	0.00	2.66	0.00	1.41	0.14	0.00	1.55	0.00	20.0	0.0	0.	0.00
67	77.250	32.06	0.0	0.0	0.0	4.14	2.61	0.00	2.61	0.00	1.39	0.14	0.00	1.53	0.00	20.0	0.0	0.	0.00
68	77.000	32.06	0.0	0.0	0.0	4.21	2.58	0.00	2.58	0.00	1.38	0.14	0.00	1.52	0.00	20.0	0.0	0.	0.00
69	76.750	32.06	0.0	0.0	0.0	4.29	2.55	0.00	2.55	0.00	1.37	0.14	0.00	1.51	0.00	20.0	0.0	0.	0.00
70	76.500	32.06	0.0	0.0	0.0	4.37	2.52	0.00	2.52	0.00	1.36	0.14	0.00	1.50	0.00	20.0	0.0	0.	0.00
71	76.250	32.06	0.0	0.0	0.0	4.45	2.50	0.00	2.50	0.00	1.35	0.14	0.00	1.49	0.00	20.0	0.0	0.	0.00

72	76.000	32.07	0.0	0.0	0.0	4.53	2.48	0.00	2.48	0.00	1.34	0.14	0.00	1.47	0.00	20.0	0.0	0.	0.00
73	75.750	32.07	0.0	0.0	0.0	4.60	2.46	0.00	2.46	0.00	1.33	0.13	0.00	1.46	0.00	20.0	0.0	0.	0.00
74	75.500	32.07	0.0	0.0	0.0	4.68	2.45	0.00	2.45	0.00	1.32	0.13	0.00	1.45	0.00	20.0	0.0	0.	0.00
75	75.250	32.07	0.0	0.0	0.0	4.76	2.43	0.00	2.43	0.00	1.31	0.13	0.00	1.44	0.00	20.0	0.0	0.	0.00
76	75.000	32.07	0.0	0.0	0.0	4.84	2.42	0.00	2.42	0.00	1.30	0.13	0.00	1.43	0.00	20.0	0.0	0.	0.00
77	74.750	32.08	0.0	0.0	0.0	4.91	2.41	0.00	2.41	0.00	1.29	0.13	0.00	1.42	0.00	20.0	0.0	0.	0.00
78	74.500	32.08	0.0	0.0	0.0	4.99	2.41	0.00	2.41	0.00	1.28	0.13	0.00	1.41	0.00	20.0	0.0	0.	0.00
79	74.250	32.08	0.0	0.0	0.0	5.06	2.40	0.00	2.40	0.00	1.27	0.13	0.00	1.40	0.00	20.0	0.0	0.	0.00
80	74.000	32.08	0.0	0.0	0.0	5.13	2.39	0.00	2.39	0.00	1.26	0.13	0.00	1.39	0.00	20.0	0.0	0.	0.00
81	73.750	32.08	0.0	0.0	0.0	5.20	2.39	0.00	2.39	0.00	1.25	0.12	0.00	1.38	0.00	20.0	0.0	0.	0.00
82	73.500	32.08	0.0	0.0	0.0	5.27	2.38	0.00	2.38	0.00	1.24	0.12	0.00	1.37	0.00	20.0	0.0	0.	0.00
83	73.250	32.09	0.0	0.0	0.0	5.34	2.38	0.00	2.38	0.00	1.23	0.12	0.00	1.36	0.00	20.0	0.0	0.	0.00
84	73.000	32.09	0.0	0.0	0.0	5.40	2.38	0.00	2.38	0.00	1.23	0.12	0.00	1.35	0.00	20.0	0.0	0.	0.00
85	72.750	32.09	0.0	0.0	0.0	5.47	2.37	0.00	2.37	0.00	1.22	0.12	0.00	1.34	0.00	20.0	0.0	0.	0.00
86	72.500	32.09	0.0	0.0	0.0	5.53	2.37	0.00	2.37	0.00	1.21	0.12	0.00	1.33	0.00	20.0	0.0	0.	0.00
87	72.250	32.09	0.0	0.0	0.0	5.59	2.37	0.00	2.37	0.00	1.20	0.12	0.00	1.32	0.00	20.0	0.0	0.	0.00
88	72.000	32.10	0.0	0.0	0.0	5.65	2.37	0.00	2.37	0.00	1.19	0.12	0.00	1.31	0.00	20.0	0.0	0.	0.00
89	71.750	32.10	0.0	0.0	0.0	5.75	2.71	0.00	2.71	0.00	1.21	0.11	0.00	1.32	0.00	20.0	0.0	0.	0.00
90	71.500	32.10	0.0	0.0	0.0	5.76	2.67	0.00	2.67	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00
91	71.250	32.11	0.0	0.0	0.0	5.63	2.61	0.00	2.61	0.00	1.19	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00
92	71.000	32.11	0.0	0.0	0.0	5.52	2.57	0.00	2.57	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00
93	70.750	32.12	0.0	0.0	0.0	5.43	2.54	0.00	2.54	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00
94	70.500	32.12	0.0	0.0	0.0	5.35	2.51	0.00	2.51	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
95	70.250	32.13	0.0	0.0	0.0	5.28	2.49	0.00	2.49	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
96	70.000	32.13	0.0	0.0	0.0	5.22	2.47	0.00	2.47	0.00	1.17	0.11	0.00	1.28	0.00	20.0	0.0	0.	0.00
97	69.750	32.14	0.0	0.0	0.0	5.16	2.46	0.00	2.46	0.00	1.17	0.11	0.00	1.28	0.00	20.0	0.0	0.	0.00
98	69.500	32.14	0.0	0.0	0.0	5.12	2.45	0.00	2.45	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00
99	69.250	32.15	0.0	0.0	0.0	5.08	2.44	0.00	2.44	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00
100	69.000	32.15	0.0	0.0	0.0	5.04	2.43	0.00	2.43	0.00	1.16	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
101	68.750	32.16	0.0	0.0	0.0	5.01	2.43	0.00	2.43	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
102	68.500	32.16	0.0	0.0	0.0	4.98	2.42	0.00	2.42	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
103	68.250	32.17	0.0	0.0	0.0	4.95	2.42	0.00	2.42	0.00	1.14	0.11	0.00	1.25	0.00	20.0	0.0	0.	0.00
104	68.000	32.17	0.0	0.0	0.0	4.93	2.42	0.00	2.42	0.00	1.14	0.11	0.00	1.25	0.00	20.0	0.0	0.	0.00
105	67.750	32.18	0.0	0.0	0.0	4.91	2.41	0.00	2.41	0.00	1.14	0.11	0.00	1.25	0.00	20.0	0.0	0.	0.00
106	67.500	32.18	0.0	0.0	0.0	4.89	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.24	0.00	20.0	0.0	0.	0.00
107	67.250	32.19	0.0	0.0	0.0	4.87	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.24	0.00	20.0	0.0	0.	0.00
108	67.000	32.19	0.0	0.0	0.0	4.86	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.23	0.00	20.0	0.0	0.	0.00
109	66.750	32.20	0.0	0.0	0.0	4.84	2.41	0.00	2.41	0.00	1.12	0.11	0.00	1.23	0.00	20.0	0.0	0.	0.00
110	66.500	32.21	0.0	0.0	0.0	4.83	2.40	0.00	2.40	0.00	1.12	0.11	0.00	1.23	0.00	20.0	0.0	0.	0.00
111	66.250	32.21	0.0	0.0	0.0	4.82	2.40	0.00	2.40	0.00	1.12	0.11	0.00	1.23	0.00	20.0	0.0	0.	0.00
112	66.000	32.22	0.0	0.0	0.0	4.81	2.40	0.00	2.40	0.00	1.12	0.11	0.00	1.22	0.00	20.0	0.0	0.	0.00
113	65.750	32.22	0.0	0.0	0.0	4.80	2.40	0.00	2.40	0.00	1.11	0.11	0.00	1.22	0.00	20.0	0.0	0.	0.00
114	65.500	32.23	0.0	0.0	0.0	4.79	2.40	0.00	2.40	0.00	1.11	0.11	0.00	1.22	0.00	20.0	0.0	0.	0.00
115	65.250	32.23	0.0	0.0	0.0	4.79	2.40	0.00	2.40	0.00	1.11	0.11	0.00	1.21	0.00	20.0	0.0	0.	0.00
116	65.000	32.24	0.0	0.0	0.0	4.78	2.40	0.00	2.40	0.00	1.10	0.11	0.00	1.21	0.00	20.0	0.0	0.	0.00
117	64.750	32.24	0.0	0.0	0.0	5.45	4.07	0.00	4.07	0.00	1.25	0.10	0.00	1.35	0.00	20.0	0.0	0.	0.00
118	64.500	32.25	0.0	0.0	0.0	5.24	3.89	0.00	3.89	0.00	1.24	0.11	0.00	1.35	0.00	20.0	0.0	0.	0.00
119	64.250	32.25	0.0	0.0	0.0	5.06	3.72	0.00	3.72	0.00	1.24	0.11	0.00	1.35	0.00	20.0	0.0	0.	0.00
120	64.000	32.26	0.0	0.0	0.0	4.91	3.57	0.00	3.57	0.00	1.24	0.11	0.00	1.35	0.00	20.0	0.0	0.	0.00
121	63.750	32.26	0.0	0.0	0.0	4.77	3.44	0.00	3.44	0.00	1.24	0.11	0.00	1.34	0.00	20.0	0.0	0.	0.00

122	63.500	32.27	0.0	0.0	0.0	4.66	3.33	0.00	3.33	0.00	1.23	0.11	0.00	1.34	0.00	20.0	0.0	0.	0.00
123	63.250	32.27	0.0	0.0	0.0	4.55	3.22	0.00	3.22	0.00	1.23	0.11	0.00	1.34	0.00	20.0	0.0	0.	0.00
124	63.000	32.28	0.0	0.0	0.0	4.47	3.13	0.00	3.13	0.00	1.23	0.11	0.00	1.34	0.00	20.0	0.0	0.	0.00
125	62.750	32.28	0.0	0.0	0.0	4.39	3.05	0.00	3.05	0.00	1.22	0.11	0.00	1.34	0.00	20.0	0.0	0.	0.00
126	62.500	32.29	0.0	0.0	0.0	4.33	2.97	0.00	2.97	0.00	1.22	0.11	0.00	1.33	0.00	20.0	0.0	0.	0.00
127	62.250	32.29	0.0	0.0	0.0	4.28	2.91	0.00	2.91	0.00	1.22	0.11	0.00	1.33	0.00	20.0	0.0	0.	0.00
128	62.000	32.30	0.0	0.0	0.0	4.23	2.85	0.00	2.85	0.00	1.22	0.11	0.00	1.33	0.00	20.0	0.0	0.	0.00
129	61.750	32.30	0.0	0.0	0.0	4.21	2.82	0.00	2.82	0.00	1.21	0.11	0.00	1.33	0.00	20.0	0.0	0.	0.00
130	61.500	32.29	0.0	0.0	0.0	4.18	2.79	0.00	2.79	0.00	1.21	0.11	0.00	1.33	0.00	20.1	0.0	0.	0.00
131	61.250	32.29	0.0	0.0	0.0	4.16	2.76	0.00	2.76	0.00	1.21	0.11	0.00	1.33	0.00	20.1	0.0	0.	0.00
132	61.000	32.28	0.0	0.0	0.0	4.14	2.74	0.00	2.74	0.00	1.21	0.11	0.00	1.33	0.00	20.2	0.0	0.	0.00
133	60.750	32.28	0.0	0.0	0.0	4.12	2.72	0.00	2.72	0.00	1.21	0.11	0.00	1.33	0.00	20.2	0.0	0.	0.00
134	60.500	32.27	0.0	0.0	0.0	4.11	2.69	0.00	2.69	0.00	1.21	0.12	0.00	1.32	0.00	20.2	0.0	0.	0.00
135	60.250	32.27	0.0	0.0	0.0	4.10	2.67	0.00	2.67	0.00	1.21	0.12	0.00	1.32	0.00	20.3	0.0	0.	0.00
136	60.000	32.27	0.0	0.0	0.0	4.08	2.65	0.00	2.65	0.00	1.21	0.12	0.00	1.32	0.00	20.3	0.0	0.	0.00
137	59.750	32.26	0.0	0.0	0.0	4.07	2.63	0.00	2.63	0.00	1.21	0.12	0.00	1.32	0.00	20.4	0.0	0.	0.00
138	59.500	32.26	0.0	0.0	0.0	4.07	2.61	0.00	2.61	0.00	1.20	0.12	0.00	1.32	0.00	20.4	0.0	0.	0.00
139	59.250	32.25	0.0	0.0	0.0	4.06	2.60	0.00	2.60	0.00	1.20	0.12	0.00	1.32	0.00	20.5	0.0	0.	0.00
140	59.000	32.25	0.0	0.0	0.0	4.05	2.58	0.00	2.58	0.00	1.20	0.12	0.00	1.32	0.00	20.5	0.0	0.	0.00
141	58.750	32.25	0.0	0.0	0.0	4.05	2.56	0.00	2.56	0.00	1.20	0.12	0.00	1.32	0.00	20.5	0.0	0.	0.00
142	58.500	32.24	0.0	0.0	0.0	4.05	2.55	0.00	2.55	0.00	1.20	0.12	0.00	1.32	0.00	20.6	0.0	0.	0.00
143	58.250	32.24	0.0	0.0	0.0	4.05	2.54	0.00	2.54	0.00	1.20	0.12	0.00	1.32	0.00	20.6	0.0	0.	0.00
144	58.000	32.23	0.0	0.0	0.0	4.05	2.52	0.00	2.52	0.00	1.20	0.12	0.00	1.31	0.00	20.7	0.0	0.	0.00
145	57.750	32.23	0.0	0.0	0.0	4.05	2.51	0.00	2.51	0.00	1.20	0.12	0.00	1.31	0.00	20.7	0.0	0.	0.00
146	57.500	32.22	0.0	0.0	0.0	4.05	2.50	0.00	2.50	0.00	1.20	0.12	0.00	1.31	0.00	20.8	0.0	0.	0.00
147	57.250	32.22	0.0	0.0	0.0	4.05	2.49	0.00	2.49	0.00	1.20	0.12	0.00	1.31	0.00	20.8	0.0	0.	0.00
148	57.000	32.22	0.0	0.0	0.0	4.05	2.48	0.00	2.48	0.00	1.19	0.12	0.00	1.31	0.00	20.8	0.0	0.	0.00
149	56.750	32.21	0.0	0.0	0.0	4.06	2.47	0.00	2.47	0.00	1.19	0.12	0.00	1.31	0.00	20.9	0.0	0.	0.00
150	56.500	32.21	0.0	0.0	0.0	4.06	2.46	0.00	2.46	0.00	1.19	0.12	0.00	1.31	0.00	20.9	0.0	0.	0.00
151	56.250	32.20	0.0	0.0	0.0	4.07	2.45	0.00	2.45	0.00	1.19	0.12	0.00	1.31	0.00	21.0	0.0	0.	0.00
152	56.000	32.20	0.0	0.0	0.0	4.08	2.44	0.00	2.44	0.00	1.19	0.12	0.00	1.31	0.00	21.0	0.0	0.	0.00
153	55.750	32.20	0.0	0.0	0.0	4.08	2.44	0.00	2.44	0.00	1.19	0.12	0.00	1.31	0.00	21.0	0.0	0.	0.00
154	55.500	32.19	0.0	0.0	0.0	4.09	2.43	0.00	2.43	0.00	1.19	0.12	0.00	1.31	0.00	21.1	0.0	0.	0.00
155	55.250	32.19	0.0	0.0	0.0	4.10	2.42	0.00	2.42	0.00	1.19	0.12	0.00	1.30	0.00	21.1	0.0	0.	0.00
156	55.000	32.18	0.0	0.0	0.0	4.11	2.42	0.00	2.42	0.00	1.19	0.12	0.00	1.30	0.00	21.2	0.0	0.	0.00
157	54.750	32.18	0.0	0.0	0.0	4.12	2.41	0.00	2.41	0.00	1.19	0.12	0.00	1.30	0.00	21.2	0.0	0.	0.00
158	54.500	32.17	0.0	0.0	0.0	4.13	2.40	0.00	2.40	0.00	1.18	0.12	0.00	1.30	0.00	21.2	0.0	0.	0.00
159	54.250	32.17	0.0	0.0	0.0	4.14	2.40	0.00	2.40	0.00	1.18	0.12	0.00	1.30	0.00	21.3	0.0	0.	0.00
160	54.000	32.17	0.0	0.0	0.0	4.15	2.39	0.00	2.39	0.00	1.18	0.12	0.00	1.30	0.00	21.3	0.0	0.	0.00
161	53.750	32.16	0.0	0.0	0.0	4.17	2.39	0.00	2.39	0.00	1.18	0.12	0.00	1.30	0.00	21.4	0.0	0.	0.00
162	53.500	32.16	0.0	0.0	0.0	4.18	2.38	0.00	2.38	0.00	1.18	0.12	0.00	1.30	0.00	21.4	0.0	0.	0.00
163	53.250	32.15	0.0	0.0	0.0	4.19	2.38	0.00	2.38	0.00	1.18	0.12	0.00	1.30	0.00	21.5	0.0	0.	0.00
164	53.000	32.15	0.0	0.0	0.0	4.21	2.38	0.00	2.38	0.00	1.18	0.12	0.00	1.30	0.00	21.5	0.0	0.	0.00
165	52.750	32.15	0.0	0.0	0.0	4.22	2.37	0.00	2.37	0.00	1.18	0.12	0.00	1.29	0.00	21.5	0.0	0.	0.00
166	52.500	32.14	0.0	0.0	0.0	4.23	2.37	0.00	2.37	0.00	1.18	0.12	0.00	1.29	0.00	21.6	0.0	0.	0.00
167	52.250	32.14	0.0	0.0	0.0	4.25	2.37	0.00	2.37	0.00	1.18	0.12	0.00	1.29	0.00	21.6	0.0	0.	0.00
168	52.000	32.13	0.0	0.0	0.0	4.26	2.36	0.00	2.36	0.00	1.18	0.12	0.00	1.29	0.00	21.7	0.0	0.	0.00
169	51.750	32.13	0.0	0.0	0.0	4.28	2.36	0.00	2.36	0.00	1.17	0.12	0.00	1.29	0.00	21.7	0.0	0.	0.00
170	51.500	32.12	0.0	0.0	0.0	4.29	2.36	0.00	2.36	0.00	1.17	0.12	0.00	1.29	0.00	21.8	0.0	0.	0.00
171	51.250	32.12	0.0	0.0	0.0	4.31	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.8	0.0	0.	0.00

172	51.000	32.12	0.0	0.0	0.0	4.33	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.8	0.0	0.	0.00
173	50.750	32.11	0.0	0.0	0.0	4.34	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.9	0.0	0.	0.00
174	50.500	32.11	0.0	0.0	0.0	4.36	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.9	0.0	0.	0.00
175	50.250	32.10	0.0	0.0	0.0	4.38	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	22.0	0.0	0.	0.00
176	50.000	32.10	0.0	0.0	0.0	4.39	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.0	0.0	0.	0.00
177	49.750	32.10	0.0	0.0	0.0	4.41	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.0	0.0	0.	0.00
178	49.500	32.09	0.0	0.0	0.0	4.43	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.1	0.0	0.	0.00
179	49.250	32.09	0.0	0.0	0.0	4.45	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.1	0.0	0.	0.00
180	49.000	32.08	0.0	0.0	0.0	4.46	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.2	0.0	0.	0.00
181	48.750	32.08	0.0	0.0	0.0	5.17	2.91	0.00	2.91	0.00	1.19	0.11	0.00	1.31	0.00	22.2	0.0	0.	0.00
182	48.500	32.08	0.0	0.0	0.0	5.15	2.88	0.00	2.88	0.00	1.19	0.11	0.00	1.31	0.00	22.2	0.0	0.	0.00
183	48.250	32.07	0.0	0.0	0.0	5.14	2.85	0.00	2.85	0.00	1.19	0.11	0.00	1.30	0.00	22.3	0.0	0.	0.00
184	48.000	32.07	0.0	0.0	0.0	5.12	2.83	0.00	2.83	0.00	1.19	0.11	0.00	1.30	0.00	22.3	0.0	0.	0.00
185	47.750	32.06	0.0	0.0	0.0	5.11	2.80	0.00	2.80	0.00	1.19	0.11	0.00	1.30	0.00	22.4	0.0	0.	0.00
186	47.500	32.06	0.0	0.0	0.0	5.09	2.78	0.00	2.78	0.00	1.19	0.11	0.00	1.30	0.00	22.4	0.0	0.	0.00
187	47.250	32.05	0.0	0.0	0.0	5.08	2.76	0.00	2.76	0.00	1.19	0.11	0.00	1.30	0.00	22.5	0.0	0.	0.00
188	47.000	32.05	0.0	0.0	0.0	5.07	2.74	0.00	2.74	0.00	1.19	0.11	0.00	1.30	0.00	22.5	0.0	0.	0.00
189	46.750	32.05	0.0	0.0	0.0	5.07	2.72	0.00	2.72	0.00	1.19	0.11	0.00	1.30	0.00	22.5	0.0	0.	0.00
190	46.500	32.04	0.0	0.0	0.0	5.06	2.70	0.00	2.70	0.00	1.19	0.11	0.00	1.30	0.00	22.6	0.0	0.	0.00
191	46.250	32.04	0.0	0.0	0.0	5.05	2.68	0.00	2.68	0.00	1.19	0.11	0.00	1.30	0.00	22.6	0.0	0.	0.00
192	46.000	32.03	0.0	0.0	0.0	5.05	2.67	0.00	2.67	0.00	1.18	0.11	0.00	1.30	0.00	22.7	0.0	0.	0.00
193	45.750	32.03	0.0	0.0	0.0	5.05	2.65	0.00	2.65	0.00	1.18	0.11	0.00	1.30	0.00	22.7	0.0	0.	0.00
194	45.500	32.02	0.0	0.0	0.0	5.05	2.63	0.00	2.63	0.00	1.18	0.11	0.00	1.30	0.00	22.8	0.0	0.	0.00
195	45.250	32.02	0.0	0.0	0.0	5.05	2.62	0.00	2.62	0.00	1.18	0.11	0.00	1.29	0.00	22.8	0.0	0.	0.00
196	45.000	32.02	0.0	0.0	0.0	5.05	2.60	0.00	2.60	0.00	1.18	0.11	0.00	1.29	0.00	22.8	0.0	0.	0.00
197	44.750	32.01	0.0	0.0	0.0	5.05	2.59	0.00	2.59	0.00	1.18	0.11	0.00	1.29	0.00	22.9	0.0	0.	0.00
198	44.500	32.01	0.0	0.0	0.0	5.05	2.58	0.00	2.58	0.00	1.18	0.11	0.00	1.29	0.00	22.9	0.0	0.	0.00
199	44.250	32.00	0.0	0.0	0.0	5.06	2.57	0.00	2.57	0.00	1.18	0.11	0.00	1.29	0.00	23.0	0.0	0.	0.00
200	44.000	32.00	0.0	0.0	0.0	5.06	2.56	0.00	2.56	0.00	1.18	0.11	0.00	1.29	0.00	23.0	0.0	0.	0.00
201	43.750	32.00	0.0	0.0	0.0	5.07	2.54	0.00	2.54	0.00	1.18	0.11	0.00	1.29	0.00	23.0	0.0	0.	0.00
202	43.500	31.99	0.0	0.0	0.0	5.07	2.53	0.00	2.53	0.00	1.18	0.11	0.00	1.29	0.00	23.1	0.0	0.	0.00
203	43.250	31.99	0.0	0.0	0.0	5.08	2.52	0.00	2.52	0.00	1.18	0.11	0.00	1.29	0.00	23.1	0.0	0.	0.00
204	43.000	31.98	0.0	0.0	0.0	5.09	2.52	0.00	2.52	0.00	1.17	0.11	0.00	1.29	0.00	23.2	0.0	0.	0.00
205	42.750	31.98	0.0	0.0	0.0	5.09	2.51	0.00	2.51	0.00	1.17	0.11	0.00	1.29	0.00	23.2	0.0	0.	0.00
206	42.500	31.98	0.0	0.0	0.0	5.10	2.50	0.00	2.50	0.00	1.17	0.11	0.00	1.29	0.00	23.2	0.0	0.	0.00
207	42.250	31.97	0.0	0.0	0.0	5.11	2.49	0.00	2.49	0.00	1.17	0.11	0.00	1.28	0.00	23.3	0.0	0.	0.00
208	42.000	31.97	0.0	0.0	0.0	5.12	2.48	0.00	2.48	0.00	1.17	0.11	0.00	1.28	0.00	23.3	0.0	0.	0.00
209	41.750	31.96	0.0	0.0	0.0	5.13	2.48	0.00	2.48	0.00	1.17	0.11	0.00	1.28	0.00	23.4	0.0	0.	0.00
210	41.500	31.96	0.0	0.0	0.0	5.14	2.47	0.00	2.47	0.00	1.17	0.11	0.00	1.28	0.00	23.4	0.0	0.	0.00
211	41.250	31.95	0.0	0.0	0.0	5.16	2.46	0.00	2.46	0.00	1.17	0.11	0.00	1.28	0.00	23.5	0.0	0.	0.00
212	41.000	31.95	0.0	0.0	0.0	5.17	2.46	0.00	2.46	0.00	1.17	0.11	0.00	1.28	0.00	23.5	0.0	0.	0.00
213	40.750	31.95	0.0	0.0	0.0	5.18	2.45	0.00	2.45	0.00	1.17	0.11	0.00	1.28	0.00	23.5	0.0	0.	0.00
214	40.500	31.94	0.0	0.0	0.0	5.19	2.44	0.00	2.44	0.00	1.17	0.11	0.00	1.28	0.00	23.6	0.0	0.	0.00
215	40.250	31.94	0.0	0.0	0.0	5.21	2.44	0.00	2.44	0.00	1.17	0.11	0.00	1.28	0.00	23.6	0.0	0.	0.00
216	40.000	31.93	0.0	0.0	0.0	5.22	2.43	0.00	2.43	0.00	1.17	0.11	0.00	1.28	0.00	23.7	0.0	0.	0.00
217	39.750	31.93	0.0	0.0	0.0	5.23	2.43	0.00	2.43	0.00	1.17	0.11	0.00	1.28	0.00	23.7	0.0	0.	0.00
218	39.500	31.92	0.0	0.0	0.0	5.25	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.28	0.00	23.8	0.0	0.	0.00
219	39.250	31.92	0.0	0.0	0.0	5.26	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.28	0.00	23.8	0.0	0.	0.00
220	39.000	31.92	0.0	0.0	0.0	5.28	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.27	0.00	23.8	0.0	0.	0.00
221	38.750	31.91	0.0	0.0	0.0	5.29	2.41	0.00	2.41	0.00	1.16	0.11	0.00	1.27	0.00	23.9	0.0	0.	0.00

222	38.500	31.91	0.0	0.0	0.0	5.34	2.40	0.00	2.40	0.00	1.16	0.11	0.00	1.27	0.00	23.9	0.0	0.	0.00
223	38.250	31.90	0.0	0.0	0.0	5.39	2.39	0.00	2.39	0.00	1.16	0.11	0.00	1.27	0.00	24.0	0.0	0.	0.00
224	38.000	31.90	0.0	0.0	0.0	5.43	2.39	0.00	2.39	0.00	1.16	0.11	0.00	1.27	0.00	24.0	0.0	0.	0.00
405	37.750	31.90	0.0	0.0	0.0	5.10	3.15	0.00	3.15	0.00	1.20	0.11	0.00	1.31	0.00	24.0	0.0	0.	0.00
406	37.500	31.90	0.0	0.0	0.0	5.13	3.22	0.00	3.22	0.00	1.20	0.11	0.00	1.31	0.00	24.0	0.0	0.	0.00
407	37.250	31.90	0.0	0.0	0.0	5.14	3.27	0.00	3.27	0.00	1.20	0.11	0.00	1.31	0.00	24.0	0.0	0.	0.00
408	37.000	31.90	0.0	0.0	0.0	5.15	3.33	0.00	3.33	0.00	1.20	0.11	0.00	1.31	0.00	24.0	0.0	0.	0.00
409	36.750	31.90	0.0	0.0	0.0	5.16	3.38	0.00	3.38	0.00	1.19	0.11	0.00	1.31	0.00	24.0	0.0	0.	0.00
410	36.500	31.90	0.0	0.0	0.0	5.16	3.42	0.00	3.42	0.00	1.19	0.11	0.00	1.30	0.00	24.0	0.0	0.	0.00
411	36.250	31.90	0.0	0.0	0.0	5.15	3.46	0.00	3.46	0.00	1.19	0.11	0.00	1.30	0.00	24.0	0.0	0.	0.00
412	36.000	31.90	0.0	0.0	0.0	5.15	3.50	0.00	3.50	0.00	1.19	0.11	0.00	1.30	0.00	24.0	0.0	0.	0.00
413	35.750	31.90	0.0	0.0	0.0	4.86	3.99	0.00	3.99	0.00	1.23	0.11	0.00	1.34	0.00	24.0	0.0	0.	0.00
414	35.500	31.90	0.0	0.0	0.0	4.81	3.98	0.00	3.98	0.00	1.23	0.12	0.00	1.34	0.00	24.0	0.0	0.	0.00
415	35.250	31.90	0.0	0.0	0.0	4.77	3.97	0.00	3.97	0.00	1.22	0.12	0.00	1.34	0.00	24.0	0.0	0.	0.00
416	35.000	31.90	0.0	0.0	0.0	4.73	3.96	0.00	3.96	0.00	1.22	0.12	0.00	1.34	0.00	24.0	0.0	0.	0.00
417	34.750	31.90	0.0	0.0	0.0	4.69	3.95	0.00	3.95	0.00	1.22	0.12	0.00	1.34	0.00	24.0	0.0	0.	0.00
418	34.500	31.90	0.0	0.0	0.0	4.66	3.94	0.00	3.94	0.00	1.22	0.12	0.00	1.34	0.00	24.0	0.0	0.	0.00
419	34.250	31.90	0.0	0.0	0.0	4.62	3.94	0.00	3.94	0.00	1.22	0.12	0.00	1.33	0.00	24.0	0.0	0.	0.00
420	34.000	31.90	0.0	0.0	0.0	4.59	3.93	0.00	3.93	0.00	1.22	0.12	0.00	1.33	0.00	24.0	0.0	0.	0.00
421	33.750	31.90	0.0	0.0	0.0	4.56	3.92	0.00	3.92	0.00	1.22	0.12	0.00	1.33	0.00	24.0	0.0	0.	0.00
422	33.500	31.90	0.0	0.0	0.0	4.53	3.92	0.00	3.92	0.00	1.21	0.12	0.00	1.33	0.00	24.0	0.0	0.	0.00
423	33.250	31.90	0.0	0.0	0.0	4.50	3.91	0.00	3.91	0.00	1.21	0.12	0.00	1.33	0.00	24.0	0.0	0.	0.00
424	33.000	31.90	0.0	0.0	0.0	4.47	3.91	0.00	3.91	0.00	1.21	0.12	0.00	1.33	0.00	24.0	0.0	0.	0.00
425	32.750	31.90	0.0	0.0	0.0	4.44	3.90	0.00	3.90	0.00	1.21	0.12	0.00	1.33	0.00	24.0	0.0	0.	0.00
426	32.500	31.90	0.0	0.0	0.0	4.42	3.90	0.00	3.90	0.00	1.21	0.12	0.00	1.33	0.00	24.0	0.0	0.	0.00
427	32.250	31.90	0.0	0.0	0.0	4.39	3.90	0.00	3.90	0.00	1.21	0.12	0.00	1.32	0.00	24.0	0.0	0.	0.00
428	32.000	31.90	0.0	0.0	0.0	4.37	3.89	0.00	3.89	0.00	1.21	0.12	0.00	1.32	0.00	24.0	0.0	0.	0.00
429	31.750	31.90	0.0	0.0	0.0	4.35	3.89	0.00	3.89	0.00	1.21	0.12	0.00	1.32	0.00	24.0	0.0	0.	0.00
430	31.500	31.90	0.0	0.0	0.0	4.32	3.89	0.00	3.89	0.00	1.20	0.12	0.00	1.32	0.00	24.0	0.0	0.	0.00
431	31.250	31.90	0.0	0.0	0.0	4.30	3.89	0.00	3.89	0.00	1.20	0.12	0.00	1.32	0.00	24.0	0.0	0.	0.00
432	31.000	31.90	0.0	0.0	0.0	4.28	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	24.0	0.0	0.	0.00
433	30.750	31.90	0.0	0.0	0.0	4.26	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	24.0	0.0	0.	0.00
434	30.500	31.90	0.0	0.0	0.0	4.24	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	24.0	0.0	0.	0.00
435	30.250	31.90	0.0	0.0	0.0	4.23	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	24.0	0.0	0.	0.00
436	30.000	31.90	0.0	0.0	0.0	4.21	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.31	0.00	24.0	0.0	0.	0.00
437	29.750	31.90	0.0	0.0	0.0	4.19	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.31	0.00	24.0	0.0	0.	0.00
438	29.500	31.90	0.0	0.0	0.0	4.17	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0.	0.00
439	29.250	31.90	0.0	0.0	0.0	4.16	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0.	0.00
440	29.000	31.90	0.0	0.0	0.0	4.14	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0.	0.00
441	28.750	31.90	0.0	0.0	0.0	4.13	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0.	0.00
442	28.500	31.90	0.0	0.0	0.0	4.11	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0.	0.00
443	28.250	31.90	0.0	0.0	0.0	4.10	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0.	0.00
444	28.000	31.90	0.0	0.0	0.0	4.09	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0.	0.00
445	27.750	31.90	0.0	0.0	0.0	4.07	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0.	0.00
446	27.500	31.90	0.0	0.0	0.0	4.06	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.30	0.00	24.0	0.0	0.	0.00
447	27.250	31.90	0.0	0.0	0.0	4.05	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.30	0.00	24.0	0.0	0.	0.00
448	27.000	31.90	0.0	0.0	0.0	4.04	3.87	0.00	3.87	0.00	1.18	0.12	0.00	1.30	0.00	24.0	0.0	0.	0.00
449	26.750	31.90	0.0	0.0	0.0	4.03	3.87	0.00	3.87	0.00	1.18	0.12	0.00	1.30	0.00	24.0	0.0	0.	0.00
450	26.500	31.90	0.0	0.0	0.0	4.01	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.0	0.0	0.	0.00
451	26.250	31.90	0.0	0.0	0.0	4.00	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.0	0.0	0.	0.00

452	26.000	31.90	0.0	0.0	0.0	3.99	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.0	0.0	0. 0.00
453	25.750	31.90	0.0	0.0	0.0	3.98	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.0	0.0	0. 0.00
454	25.500	31.90	0.0	0.0	0.0	3.97	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.0	0.0	0. 0.00
455	25.250	31.90	0.0	0.0	0.0	3.96	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.0	0.0	0. 0.00
456	25.000	31.90	0.0	0.0	0.0	3.96	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.0	0.0	0. 0.00
457	24.750	31.90	0.0	0.0	0.0	3.95	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
458	24.500	31.90	0.0	0.0	0.0	3.94	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
459	24.250	31.90	0.0	0.0	0.0	3.93	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
460	24.000	31.90	0.0	0.0	0.0	3.92	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
461	23.750	31.90	0.0	0.0	0.0	3.91	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
462	23.500	31.90	0.0	0.0	0.0	3.91	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
463	23.250	31.90	0.0	0.0	0.0	3.90	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
464	23.000	31.90	0.0	0.0	0.0	3.89	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
465	22.750	31.90	0.0	0.0	0.0	3.88	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
466	22.500	31.90	0.0	0.0	0.0	3.88	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
467	22.250	31.90	0.0	0.0	0.0	3.87	3.87	0.00	3.87	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
468	22.000	31.90	0.0	0.0	0.0	3.86	3.87	0.00	3.87	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
469	21.750	31.90	0.0	0.0	0.0	3.79	4.97	0.00	4.97	0.00	1.20	0.12	0.00	1.32	0.00	24.0	0.0	0. 0.00
470	21.500	31.90	0.0	0.0	0.0	3.71	4.89	0.00	4.89	0.00	1.20	0.12	0.00	1.32	0.00	24.0	0.0	0. 0.00
471	21.250	31.90	0.0	0.0	0.0	3.64	4.82	0.00	4.82	0.00	1.20	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
472	21.000	31.90	0.0	0.0	0.0	3.58	4.75	0.00	4.75	0.00	1.20	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
473	20.750	31.90	0.0	0.0	0.0	3.52	4.69	0.00	4.69	0.00	1.20	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
474	20.500	31.90	0.0	0.0	0.0	3.47	4.63	0.00	4.63	0.00	1.20	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
475	20.250	31.90	0.0	0.0	0.0	3.42	4.58	0.00	4.58	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
476	20.000	31.90	0.0	0.0	0.0	3.38	4.53	0.00	4.53	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
477	19.750	31.90	0.0	0.0	0.0	3.34	4.48	0.00	4.48	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
478	19.500	31.90	0.0	0.0	0.0	3.31	4.44	0.00	4.44	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
479	19.250	31.90	0.0	0.0	0.0	3.27	4.40	0.00	4.40	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
480	19.000	31.90	0.0	0.0	0.0	3.25	4.36	0.00	4.36	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
481	18.750	31.90	0.0	0.0	0.0	3.22	4.33	0.00	4.33	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
482	18.500	31.90	0.0	0.0	0.0	3.20	4.30	0.00	4.30	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
483	18.250	31.90	0.0	0.0	0.0	3.18	4.27	0.00	4.27	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
484	18.000	31.90	0.0	0.0	0.0	3.16	4.24	0.00	4.24	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
485	17.750	31.90	0.0	0.0	0.0	3.15	4.21	0.00	4.21	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
486	17.500	31.90	0.0	0.0	0.0	3.13	4.19	0.00	4.19	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
487	17.250	31.90	0.0	0.0	0.0	3.12	4.17	0.00	4.17	0.00	1.19	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
488	17.000	31.90	0.0	0.0	0.0	3.11	4.15	0.00	4.15	0.00	1.18	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
489	16.750	31.90	0.0	0.0	0.0	3.10	4.13	0.00	4.13	0.00	1.18	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
490	16.500	31.90	0.0	0.0	0.0	3.10	4.11	0.00	4.11	0.00	1.18	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
491	16.250	31.90	0.0	0.0	0.0	3.09	4.09	0.00	4.09	0.00	1.18	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
492	16.000	31.90	0.0	0.0	0.0	3.09	4.08	0.00	4.08	0.00	1.18	0.12	0.00	1.31	0.00	24.0	0.0	0. 0.00
493	15.750	31.90	0.0	0.0	0.0	3.08	4.15	0.00	4.15	0.00	1.17	0.12	0.00	1.30	0.00	24.0	0.0	0. 0.00
494	15.500	31.90	0.0	0.0	0.0	3.07	4.13	0.00	4.13	0.00	1.17	0.12	0.00	1.30	0.00	24.0	0.0	0. 0.00
495	15.250	31.90	0.0	0.0	0.0	3.07	4.12	0.00	4.12	0.00	1.17	0.12	0.00	1.30	0.00	24.0	0.0	0. 0.00
496	15.000	31.90	0.0	0.0	0.0	3.06	4.10	0.00	4.10	0.00	1.17	0.12	0.00	1.30	0.00	24.0	0.0	0. 0.00
497	14.750	31.90	0.0	0.0	0.0	3.06	4.08	0.00	4.08	0.00	1.17	0.12	0.00	1.30	0.00	24.0	0.0	0. 0.00
498	14.500	31.90	0.0	0.0	0.0	3.05	4.07	0.00	4.07	0.00	1.17	0.12	0.00	1.30	0.00	24.0	0.0	0. 0.00
499	14.250	31.90	0.0	0.0	0.0	3.05	4.06	0.00	4.06	0.00	1.17	0.12	0.00	1.30	0.00	24.0	0.0	0. 0.00
500	14.000	31.90	0.0	0.0	0.0	3.05	4.04	0.00	4.04	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00
501	13.750	31.90	0.0	0.0	0.0	3.05	4.03	0.00	4.03	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0. 0.00

502	13.500	31.90	0.0	0.0	0.0	3.05	4.02	0.00	4.02	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0.	0.00
503	13.250	31.90	0.0	0.0	0.0	3.05	4.01	0.00	4.01	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0.	0.00
504	13.000	31.90	0.0	0.0	0.0	3.05	4.00	0.00	4.00	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0.	0.00
505	12.750	31.90	0.0	0.0	0.0	3.05	3.99	0.00	3.99	0.00	1.17	0.12	0.00	1.29	0.00	24.0	0.0	0.	0.00
506	12.500	31.90	0.0	0.0	0.0	3.06	3.98	0.00	3.98	0.00	1.17	0.13	0.00	1.29	0.00	24.0	0.0	0.	0.00
507	12.250	31.90	0.0	0.0	0.0	3.06	3.97	0.00	3.97	0.00	1.17	0.13	0.00	1.29	0.00	24.0	0.0	0.	0.00
508	12.000	31.90	0.0	0.0	0.0	3.06	3.97	0.00	3.97	0.00	1.17	0.13	0.00	1.29	0.00	24.0	0.0	0.	0.00
509	11.750	31.90	0.0	0.0	0.0	3.07	3.96	0.00	3.96	0.00	1.16	0.13	0.00	1.29	0.00	24.0	0.0	0.	0.00
510	11.500	31.90	0.0	0.0	0.0	3.07	3.95	0.00	3.95	0.00	1.16	0.13	0.00	1.29	0.00	24.0	0.0	0.	0.00
511	11.250	31.90	0.0	0.0	0.0	3.08	3.95	0.00	3.95	0.00	1.16	0.13	0.00	1.29	0.00	24.0	0.0	0.	0.00
512	11.000	31.90	0.0	0.0	0.0	3.08	3.94	0.00	3.94	0.00	1.16	0.13	0.00	1.29	0.00	24.0	0.0	0.	0.00
513	10.750	31.90	0.0	0.0	0.0	3.09	3.94	0.00	3.94	0.00	1.16	0.13	0.00	1.29	0.00	24.0	0.0	0.	0.00
514	10.500	31.90	0.0	0.0	0.0	3.09	3.93	0.00	3.93	0.00	1.16	0.13	0.00	1.29	0.00	24.0	0.0	0.	0.00
515	10.250	31.90	0.0	0.0	0.0	3.10	3.93	0.00	3.93	0.00	1.16	0.13	0.00	1.29	0.00	24.0	0.0	0.	0.00
516	10.000	31.90	0.0	0.0	0.0	3.10	3.92	0.00	3.92	0.00	1.16	0.13	0.00	1.29	0.00	24.0	0.0	0.	0.00
517	9.750	31.90	0.0	0.0	0.0	3.11	3.92	0.00	3.92	0.00	1.16	0.13	0.00	1.29	0.00	24.0	0.0	0.	0.00
518	9.500	31.90	0.0	0.0	0.0	3.11	3.91	0.00	3.91	0.00	1.16	0.13	0.00	1.28	0.00	24.0	0.0	0.	0.00
519	9.250	31.90	0.0	0.0	0.0	3.12	3.91	0.00	3.91	0.00	1.16	0.12	0.00	1.28	0.00	24.0	0.0	0.	0.00
520	9.000	31.90	0.0	0.0	0.0	3.13	3.91	0.00	3.91	0.00	1.16	0.12	0.00	1.28	0.00	24.0	0.0	0.	0.00
521	8.750	31.90	0.0	0.0	0.0	3.13	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	24.0	0.0	0.	0.00
522	8.500	31.90	0.0	0.0	0.0	3.14	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	24.0	0.0	0.	0.00
523	8.250	31.90	0.0	0.0	0.0	3.14	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	24.0	0.0	0.	0.00
524	8.000	31.90	0.0	0.0	0.0	3.15	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	24.0	0.0	0.	0.00
525	7.750	31.90	0.0	0.0	0.0	3.15	4.13	0.00	4.13	0.00	1.14	0.12	0.00	1.27	0.00	24.0	0.0	0.	0.00
526	7.500	31.90	0.0	0.0	0.0	3.14	4.11	0.00	4.11	0.00	1.14	0.12	0.00	1.27	0.00	24.0	0.0	0.	0.00
527	7.250	31.90	0.0	0.0	0.0	3.14	4.10	0.00	4.10	0.00	1.14	0.12	0.00	1.27	0.00	24.0	0.0	0.	0.00
528	7.000	31.90	0.0	0.0	0.0	3.13	4.08	0.00	4.08	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
529	6.750	31.90	0.0	0.0	0.0	3.13	4.07	0.00	4.07	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
530	6.500	31.90	0.0	0.0	0.0	3.13	4.06	0.00	4.06	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
531	6.250	31.90	0.0	0.0	0.0	3.12	4.05	0.00	4.05	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
532	6.000	31.90	0.0	0.0	0.0	3.12	4.03	0.00	4.03	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
533	5.750	31.90	0.0	0.0	0.0	3.12	4.02	0.00	4.02	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
534	5.500	31.90	0.0	0.0	0.0	3.12	4.01	0.00	4.01	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
535	5.250	31.90	0.0	0.0	0.0	3.12	4.00	0.00	4.00	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
536	5.000	31.90	0.0	0.0	0.0	3.12	4.00	0.00	4.00	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
537	4.750	31.90	0.0	0.0	0.0	3.12	3.99	0.00	3.99	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
538	4.500	31.90	0.0	0.0	0.0	3.12	3.98	0.00	3.98	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
539	4.250	31.90	0.0	0.0	0.0	3.13	3.97	0.00	3.97	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
540	4.000	31.90	0.0	0.0	0.0	3.13	3.97	0.00	3.97	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
541	3.750	31.90	0.0	0.0	0.0	3.13	3.96	0.00	3.96	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
542	3.500	31.90	0.0	0.0	0.0	3.13	3.95	0.00	3.95	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
543	3.250	31.90	0.0	0.0	0.0	3.14	3.95	0.00	3.95	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
544	3.000	31.90	0.0	0.0	0.0	3.14	3.94	0.00	3.94	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
545	2.750	31.90	0.0	0.0	0.0	3.15	3.94	0.00	3.94	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
546	2.500	31.90	0.0	0.0	0.0	3.15	3.93	0.00	3.93	0.00	1.14	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
547	2.250	31.90	0.0	0.0	0.0	3.15	3.93	0.00	3.93	0.00	1.13	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
548	2.000	31.90	0.0	0.0	0.0	3.16	3.92	0.00	3.92	0.00	1.13	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
549	1.750	31.90	0.0	0.0	0.0	3.16	3.92	0.00	3.92	0.00	1.13	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
550	1.500	31.90	0.0	0.0	0.0	3.17	3.92	0.00	3.92	0.00	1.13	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
551	1.250	31.90	0.0	0.0	0.0	3.17	3.91	0.00	3.91	0.00	1.13	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00

552	1.000	31.90	0.0	0.0	0.0	3.18	3.91	0.00	3.91	0.00	1.13	0.12	0.00	1.26	0.00	24.0	0.0	0.	0.00
553	0.750	31.90	0.0	0.0	0.0	3.18	3.91	0.00	3.91	0.00	1.13	0.12	0.00	1.25	0.00	24.0	0.0	0.	0.00
554	0.500	31.90	0.0	0.0	0.0	3.19	3.90	0.00	3.90	0.00	1.13	0.12	0.00	1.25	0.00	24.0	0.0	0.	0.00
555	0.250	31.90	0.0	0.0	0.0	3.20	3.90	0.00	3.90	0.00	1.13	0.12	0.00	1.25	0.00	24.0	0.0	0.	0.00
556	0.000	31.90	0.0	0.0	0.0	3.20	3.90	0.00	3.90	0.00	1.13	0.12	0.00	1.25	0.00	24.0	0.0	0.	0.00

SPECIAL REPORT: Bayou Black
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	*	CM-I *	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
225	44.750	32.10	0.0	0.0	0.0	10.55	0.46	0.00	0.46	0.00	0.25	0.02	0.00	0.26	0.00	25.0	0.0	0.	0.00	
226	44.500	32.09	0.0	0.0	0.0	10.87	0.36	0.00	0.36	0.00	0.14	0.01	0.00	0.15	0.00	25.0	0.0	0.	0.00	
227	44.250	32.09	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
228	44.000	32.08	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
229	43.750	32.08	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
230	43.500	32.08	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
231	43.250	32.07	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
232	43.000	32.07	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
233	42.750	32.06	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
234	42.500	32.06	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
235	42.250	32.06	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
236	42.000	32.05	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
237	41.750	32.05	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
238	41.500	32.04	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
239	41.250	32.04	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
240	41.000	32.04	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
241	40.750	32.03	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
242	40.500	32.03	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
243	40.250	32.02	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
244	40.000	32.02	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
245	39.750	32.02	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
246	39.500	32.01	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
247	39.250	32.01	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
248	39.000	32.00	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
249	38.750	32.00	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00	
250	38.500	32.00	0.0	0.0	0.0	8.96	1.81	0.00	1.81	0.00	0.21	0.01	0.00	0.22	0.00	25.7	0.0	0.	0.00	
251	38.250	32.00	0.0	0.0	0.0	7.74	2.91	0.00	2.91	0.00	0.28	0.01	0.00	0.30	0.00	26.4	0.0	0.	0.00	
252	38.000	32.00	0.0	0.0	0.0	6.95	3.76	0.00	3.76	0.00	0.35	0.02	0.00	0.37	0.00	27.1	0.0	0.	0.00	
253	37.750	32.00	0.0	0.0	0.0	6.42	4.42	0.00	4.42	0.00	0.42	0.02	0.00	0.44	0.00	27.9	0.0	0.	0.00	
254	37.500	32.00	0.0	0.0	0.0	6.05	4.93	0.00	4.93	0.00	0.48	0.02	0.00	0.50	0.00	28.6	0.0	0.	0.00	
255	37.250	32.00	0.0	0.0	0.0	5.80	5.33	0.00	5.33	0.00	0.53	0.03	0.00	0.56	0.00	29.3	0.0	0.	0.00	
256	37.000	32.00	0.0	0.0	0.0	5.62	5.65	0.00	5.65	0.00	0.59	0.03	0.00	0.62	0.00	30.0	0.0	0.	0.00	
257	36.750	32.00	0.0	0.0	0.0	5.50	5.90	0.00	5.90	0.00	0.64	0.03	0.00	0.67	0.00	30.7	0.0	0.	0.00	
258	36.500	32.00	0.0	0.0	0.0	5.41	6.09	0.00	6.09	0.00	0.68	0.04	0.00	0.72	0.00	31.4	0.0	0.	0.00	
259	36.250	32.00	0.0	0.0	0.0	5.35	6.25	0.00	6.25	0.00	0.73	0.04	0.00	0.76	0.00	32.1	0.0	0.	0.00	
260	36.000	32.00	0.0	0.0	0.0	5.31	6.41	0.00	6.41	0.00	0.77	0.04	0.00	0.81	0.00	32.9	0.0	0.	0.00	
261	35.750	32.00	0.0	0.0	0.0	5.28	6.50	0.00	6.50	0.00	0.81	0.05	0.00	0.85	0.00	33.6	0.0	0.	0.00	

262	35.500	32.00	0.0	0.0	0.0	5.27	6.58	0.00	6.58	0.00	0.84	0.05	0.00	0.89	0.00	34.3	0.0	0.	0.00
263	35.250	32.00	0.0	0.0	0.0	5.27	6.64	0.00	6.64	0.00	0.88	0.05	0.00	0.93	0.00	35.0	0.0	0.	0.00
264	35.000	32.00	0.0	0.0	0.0	5.27	6.70	0.00	6.70	0.00	0.91	0.05	0.00	0.96	0.00	35.7	0.0	0.	0.00
265	34.750	32.00	0.0	0.0	0.0	5.29	6.74	0.00	6.74	0.00	0.94	0.05	0.00	0.99	0.00	36.4	0.0	0.	0.00
266	34.500	32.00	0.0	0.0	0.0	5.30	6.77	0.00	6.77	0.00	0.97	0.06	0.00	1.02	0.00	37.1	0.0	0.	0.00
267	34.250	32.00	0.0	0.0	0.0	5.32	6.80	0.00	6.80	0.00	0.99	0.06	0.00	1.05	0.00	37.9	0.0	0.	0.00
268	34.000	32.00	0.0	0.0	0.0	5.34	6.83	0.00	6.83	0.00	1.02	0.06	0.00	1.08	0.00	38.6	0.0	0.	0.00
269	33.750	32.00	0.0	0.0	0.0	5.37	6.85	0.00	6.85	0.00	1.05	0.06	0.00	1.11	0.00	39.3	0.0	0.	0.00
270	33.500	32.00	0.0	0.0	0.0	5.40	6.86	0.00	6.86	0.00	1.07	0.06	0.00	1.13	0.00	40.0	0.0	0.	0.00
271	33.250	32.00	0.0	0.0	0.0	5.43	6.87	0.00	6.87	0.00	1.09	0.06	0.00	1.15	0.00	40.7	0.0	0.	0.00
272	33.000	32.00	0.0	0.0	0.0	5.46	6.89	0.00	6.89	0.00	1.11	0.06	0.00	1.18	0.00	41.4	0.0	0.	0.00
273	32.750	32.00	0.0	0.0	0.0	5.49	6.89	0.00	6.89	0.00	1.13	0.07	0.00	1.20	0.00	42.1	0.0	0.	0.00
274	32.500	32.00	0.0	0.0	0.0	5.52	6.90	0.00	6.90	0.00	1.15	0.07	0.00	1.22	0.00	42.9	0.0	0.	0.00
275	32.250	32.00	0.0	0.0	0.0	5.56	6.91	0.00	6.91	0.00	1.17	0.07	0.00	1.24	0.00	43.6	0.0	0.	0.00
276	32.000	32.00	0.0	0.0	0.0	5.59	6.91	0.00	6.91	0.00	1.19	0.07	0.00	1.26	0.00	44.3	0.0	0.	0.00
277	31.750	32.00	0.0	0.0	0.0	5.62	6.92	0.00	6.92	0.00	1.21	0.07	0.00	1.28	0.00	45.0	0.0	0.	0.00
278	31.500	32.00	0.0	0.0	0.0	5.64	7.04	0.00	7.04	0.00	1.22	0.08	0.00	1.30	0.00	45.7	0.0	0.	0.00
279	31.250	32.00	0.0	0.0	0.0	5.66	7.03	0.00	7.03	0.00	1.24	0.08	0.00	1.32	0.00	46.4	0.0	0.	0.00
280	31.000	32.00	0.0	0.0	0.0	5.70	7.02	0.00	7.02	0.00	1.25	0.08	0.00	1.33	0.00	47.1	0.0	0.	0.00
281	30.750	32.00	0.0	0.0	0.0	5.73	7.01	0.00	7.01	0.00	1.27	0.08	0.00	1.35	0.00	47.9	0.0	0.	0.00
282	30.500	32.00	0.0	0.0	0.0	5.77	7.00	0.00	7.00	0.00	1.28	0.08	0.00	1.36	0.00	48.6	0.0	0.	0.00
283	30.250	32.00	0.0	0.0	0.0	5.81	6.99	0.00	6.99	0.00	1.29	0.08	0.00	1.37	0.00	49.3	0.0	0.	0.00
284	30.000	32.00	0.0	0.0	0.0	5.85	6.99	0.00	6.99	0.00	1.31	0.08	0.00	1.38	0.00	50.0	0.0	0.	0.00
285	29.750	32.00	0.0	0.0	0.0	5.44	6.49	0.00	6.49	0.00	1.30	0.08	0.00	1.38	0.00	49.8	0.0	0.	0.00
286	29.500	32.00	0.0	0.0	0.0	5.20	6.07	0.00	6.07	0.00	1.29	0.08	0.00	1.37	0.00	49.6	0.0	0.	0.00
287	29.250	32.00	0.0	0.0	0.0	5.05	5.70	0.00	5.70	0.00	1.28	0.08	0.00	1.36	0.00	49.3	0.0	0.	0.00
288	29.000	32.00	0.0	0.0	0.0	4.98	5.39	0.00	5.39	0.00	1.27	0.08	0.00	1.35	0.00	49.1	0.0	0.	0.00
289	28.750	32.00	0.0	0.0	0.0	4.95	5.11	0.00	5.11	0.00	1.27	0.08	0.00	1.34	0.00	48.9	0.0	0.	0.00
290	28.500	32.00	0.0	0.0	0.0	4.95	4.88	0.00	4.88	0.00	1.26	0.08	0.00	1.34	0.00	48.7	0.0	0.	0.00
291	28.250	31.99	0.0	0.0	0.0	4.97	4.67	0.00	4.67	0.00	1.25	0.08	0.00	1.33	0.00	48.5	0.0	0.	0.00
292	28.000	31.99	0.0	0.0	0.0	4.98	4.64	0.00	4.64	0.00	1.24	0.09	0.00	1.33	0.00	48.3	0.0	0.	0.00
293	27.750	31.99	0.0	0.0	0.0	5.00	4.47	0.00	4.47	0.00	1.24	0.09	0.00	1.32	0.00	48.0	0.0	0.	0.00
294	27.500	31.99	0.0	0.0	0.0	5.03	4.32	0.00	4.32	0.00	1.23	0.08	0.00	1.32	0.00	47.8	0.0	0.	0.00
295	27.250	31.99	0.0	0.0	0.0	5.06	4.19	0.00	4.19	0.00	1.22	0.08	0.00	1.31	0.00	47.6	0.0	0.	0.00
296	27.000	31.99	0.0	0.0	0.0	5.09	4.08	0.00	4.08	0.00	1.22	0.08	0.00	1.30	0.00	47.4	0.0	0.	0.00
297	26.750	31.99	0.0	0.0	0.0	5.12	3.98	0.00	3.98	0.00	1.21	0.08	0.00	1.29	0.00	47.2	0.0	0.	0.00
298	26.500	31.99	0.0	0.0	0.0	5.15	3.90	0.00	3.90	0.00	1.20	0.08	0.00	1.28	0.00	47.0	0.0	0.	0.00
299	26.250	31.99	0.0	0.0	0.0	5.17	3.83	0.00	3.83	0.00	1.20	0.08	0.00	1.28	0.00	46.8	0.0	0.	0.00
300	26.000	31.99	0.0	0.0	0.0	5.19	3.76	0.00	3.76	0.00	1.19	0.08	0.00	1.27	0.00	46.5	0.0	0.	0.00
301	25.750	31.99	0.0	0.0	0.0	5.21	3.71	0.00	3.71	0.00	1.19	0.08	0.00	1.26	0.00	46.3	0.0	0.	0.00
302	25.500	31.99	0.0	0.0	0.0	5.23	3.66	0.00	3.66	0.00	1.18	0.08	0.00	1.26	0.00	46.1	0.0	0.	0.00
303	25.250	31.98	0.0	0.0	0.0	5.24	3.61	0.00	3.61	0.00	1.18	0.08	0.00	1.25	0.00	45.9	0.0	0.	0.00
304	25.000	31.98	0.0	0.0	0.0	5.25	3.58	0.00	3.58	0.00	1.17	0.08	0.00	1.25	0.00	45.7	0.0	0.	0.00
305	24.750	31.98	0.0	0.0	0.0	5.26	3.54	0.00	3.54	0.00	1.17	0.07	0.00	1.24	0.00	45.5	0.0	0.	0.00
306	24.500	31.98	0.0	0.0	0.0	5.27	3.52	0.00	3.52	0.00	1.16	0.07	0.00	1.23	0.00	45.2	0.0	0.	0.00
307	24.250	31.98	0.0	0.0	0.0	5.27	3.49	0.00	3.49	0.00	1.16	0.07	0.00	1.23	0.00	45.0	0.0	0.	0.00
308	24.000	31.98	0.0	0.0	0.0	5.27	3.47	0.00	3.47	0.00	1.15	0.07	0.00	1.22	0.00	44.8	0.0	0.	0.00
309	23.750	31.98	0.0	0.0	0.0	5.27	3.45	0.00	3.45	0.00	1.15	0.07	0.00	1.22	0.00	44.6	0.0	0.	0.00
310	23.500	31.98	0.0	0.0	0.0	5.27	3.43	0.00	3.43	0.00	1.14	0.07	0.00	1.21	0.00	44.4	0.0	0.	0.00
311	23.250	31.98	0.0	0.0	0.0	5.27	3.42	0.00	3.42	0.00	1.14	0.07	0.00	1.21	0.00	44.2	0.0	0.	0.00

312	23.000	31.98	0.0	0.0	0.0	5.26	3.47	0.00	3.47	0.00	1.13	0.08	0.00	1.21	0.00	43.9	0.0	0.	0.00
313	22.750	31.98	0.0	0.0	0.0	5.25	3.45	0.00	3.45	0.00	1.13	0.07	0.00	1.20	0.00	43.7	0.0	0.	0.00
314	22.500	31.98	0.0	0.0	0.0	5.24	3.44	0.00	3.44	0.00	1.12	0.07	0.00	1.20	0.00	43.5	0.0	0.	0.00
315	22.250	31.97	0.0	0.0	0.0	5.23	3.42	0.00	3.42	0.00	1.12	0.07	0.00	1.19	0.00	43.3	0.0	0.	0.00
316	22.000	31.97	0.0	0.0	0.0	5.23	3.41	0.00	3.41	0.00	1.12	0.07	0.00	1.19	0.00	43.1	0.0	0.	0.00
317	21.750	31.97	0.0	0.0	0.0	5.22	3.40	0.00	3.40	0.00	1.11	0.07	0.00	1.18	0.00	42.8	0.0	0.	0.00
318	21.500	31.97	0.0	0.0	0.0	5.21	3.39	0.00	3.39	0.00	1.11	0.07	0.00	1.18	0.00	42.6	0.0	0.	0.00
319	21.250	31.97	0.0	0.0	0.0	5.21	3.38	0.00	3.38	0.00	1.10	0.07	0.00	1.17	0.00	42.4	0.0	0.	0.00
320	21.000	31.97	0.0	0.0	0.0	5.20	3.37	0.00	3.37	0.00	1.10	0.07	0.00	1.17	0.00	42.2	0.0	0.	0.00
321	20.750	31.97	0.0	0.0	0.0	5.19	3.36	0.00	3.36	0.00	1.10	0.07	0.00	1.17	0.00	42.0	0.0	0.	0.00
322	20.500	31.97	0.0	0.0	0.0	5.18	3.36	0.00	3.36	0.00	1.09	0.07	0.00	1.16	0.00	41.8	0.0	0.	0.00
323	20.250	31.97	0.0	0.0	0.0	5.17	3.35	0.00	3.35	0.00	1.09	0.07	0.00	1.16	0.00	41.5	0.0	0.	0.00
324	20.000	31.97	0.0	0.0	0.0	5.17	3.35	0.00	3.35	0.00	1.09	0.07	0.00	1.15	0.00	41.3	0.0	0.	0.00
325	19.750	31.97	0.0	0.0	0.0	5.16	3.34	0.00	3.34	0.00	1.08	0.07	0.00	1.15	0.00	41.1	0.0	0.	0.00
326	19.500	31.97	0.0	0.0	0.0	5.15	3.34	0.00	3.34	0.00	1.08	0.07	0.00	1.15	0.00	40.9	0.0	0.	0.00
327	19.250	31.96	0.0	0.0	0.0	5.14	3.33	0.00	3.33	0.00	1.08	0.07	0.00	1.14	0.00	40.7	0.0	0.	0.00
328	19.000	31.96	0.0	0.0	0.0	5.13	3.33	0.00	3.33	0.00	1.07	0.07	0.00	1.14	0.00	40.5	0.0	0.	0.00
329	18.750	31.96	0.0	0.0	0.0	5.12	3.33	0.00	3.33	0.00	1.07	0.07	0.00	1.14	0.00	40.2	0.0	0.	0.00
330	18.500	31.96	0.0	0.0	0.0	5.11	3.33	0.00	3.33	0.00	1.07	0.07	0.00	1.13	0.00	40.0	0.0	0.	0.00
331	18.250	31.96	0.0	0.0	0.0	5.09	3.35	0.00	3.35	0.00	1.06	0.07	0.00	1.13	0.00	39.8	0.0	0.	0.00
332	18.000	31.96	0.0	0.0	0.0	5.08	3.34	0.00	3.34	0.00	1.06	0.07	0.00	1.13	0.00	39.6	0.0	0.	0.00
333	17.750	31.96	0.0	0.0	0.0	5.07	3.34	0.00	3.34	0.00	1.06	0.07	0.00	1.13	0.00	39.4	0.0	0.	0.00
334	17.500	31.96	0.0	0.0	0.0	5.06	3.34	0.00	3.34	0.00	1.05	0.07	0.00	1.12	0.00	39.2	0.0	0.	0.00
335	17.250	31.96	0.0	0.0	0.0	5.05	3.33	0.00	3.33	0.00	1.05	0.07	0.00	1.12	0.00	39.0	0.0	0.	0.00
336	17.000	31.96	0.0	0.0	0.0	5.04	3.33	0.00	3.33	0.00	1.05	0.07	0.00	1.12	0.00	38.7	0.0	0.	0.00
337	16.750	31.96	0.0	0.0	0.0	5.03	3.33	0.00	3.33	0.00	1.05	0.07	0.00	1.11	0.00	38.5	0.0	0.	0.00
338	16.500	31.95	0.0	0.0	0.0	5.02	3.33	0.00	3.33	0.00	1.04	0.07	0.00	1.11	0.00	38.3	0.0	0.	0.00
339	16.250	31.95	0.0	0.0	0.0	5.00	3.36	0.00	3.36	0.00	1.04	0.07	0.00	1.11	0.00	38.1	0.0	0.	0.00
340	16.000	31.95	0.0	0.0	0.0	4.99	3.35	0.00	3.35	0.00	1.04	0.07	0.00	1.11	0.00	37.9	0.0	0.	0.00
341	15.750	31.95	0.0	0.0	0.0	4.97	3.35	0.00	3.35	0.00	1.04	0.07	0.00	1.10	0.00	37.7	0.0	0.	0.00
342	15.500	31.95	0.0	0.0	0.0	4.96	3.34	0.00	3.34	0.00	1.03	0.07	0.00	1.10	0.00	37.4	0.0	0.	0.00
343	15.250	31.95	0.0	0.0	0.0	4.95	3.34	0.00	3.34	0.00	1.03	0.07	0.00	1.10	0.00	37.2	0.0	0.	0.00
344	15.000	31.95	0.0	0.0	0.0	4.94	3.34	0.00	3.34	0.00	1.03	0.07	0.00	1.10	0.00	37.0	0.0	0.	0.00
345	14.750	31.95	0.0	0.0	0.0	4.93	3.33	0.00	3.33	0.00	1.03	0.07	0.00	1.09	0.00	36.8	0.0	0.	0.00
346	14.500	31.95	0.0	0.0	0.0	4.92	3.33	0.00	3.33	0.00	1.02	0.07	0.00	1.09	0.00	36.6	0.0	0.	0.00
347	14.250	31.95	0.0	0.0	0.0	4.90	3.33	0.00	3.33	0.00	1.02	0.07	0.00	1.09	0.00	36.3	0.0	0.	0.00
348	14.000	31.95	0.0	0.0	0.0	4.89	3.33	0.00	3.33	0.00	1.02	0.07	0.00	1.09	0.00	36.1	0.0	0.	0.00
349	13.750	31.95	0.0	0.0	0.0	4.88	3.33	0.00	3.33	0.00	1.02	0.07	0.00	1.08	0.00	35.9	0.0	0.	0.00
350	13.500	31.94	0.0	0.0	0.0	4.87	3.32	0.00	3.32	0.00	1.02	0.07	0.00	1.08	0.00	35.7	0.0	0.	0.00
351	13.250	31.94	0.0	0.0	0.0	4.86	3.32	0.00	3.32	0.00	1.01	0.07	0.00	1.08	0.00	35.5	0.0	0.	0.00
352	13.000	31.94	0.0	0.0	0.0	4.68	3.68	0.00	3.68	0.00	1.02	0.38	0.00	1.40	0.00	35.3	0.0	0.	0.00
353	12.750	31.94	0.0	0.0	0.0	4.55	3.64	0.00	3.64	0.00	1.02	0.34	0.00	1.36	0.00	35.0	0.0	0.	0.00
354	12.500	31.94	0.0	0.0	0.0	4.46	3.61	0.00	3.61	0.00	1.01	0.31	0.00	1.32	0.00	34.8	0.0	0.	0.00
355	12.250	31.94	0.0	0.0	0.0	4.41	3.58	0.00	3.58	0.00	1.01	0.28	0.00	1.29	0.00	34.6	0.0	0.	0.00
356	12.000	31.94	0.0	0.0	0.0	4.37	3.56	0.00	3.56	0.00	1.01	0.25	0.00	1.27	0.00	34.4	0.0	0.	0.00
357	11.750	31.94	0.0	0.0	0.0	4.36	3.54	0.00	3.54	0.00	1.01	0.23	0.00	1.24	0.00	34.2	0.0	0.	0.00
358	11.500	31.94	0.0	0.0	0.0	4.35	3.51	0.00	3.51	0.00	1.01	0.21	0.00	1.22	0.00	34.0	0.0	0.	0.00
359	11.250	31.94	0.0	0.0	0.0	4.35	3.50	0.00	3.50	0.00	1.01	0.20	0.00	1.20	0.00	33.8	0.0	0.	0.00
360	11.000	31.94	0.0	0.0	0.0	4.36	3.48	0.00	3.48	0.00	1.00	0.18	0.00	1.18	0.00	33.5	0.0	0.	0.00
361	10.750	31.94	0.0	0.0	0.0	4.37	3.46	0.00	3.46	0.00	1.00	0.17	0.00	1.17	0.00	33.3	0.0	0.	0.00

362	10.500	31.93	0.0	0.0	0.0	4.38	3.45	0.00	3.45	0.00	1.00	0.15	0.00	1.15	0.00	33.1	0.0	0.	0.00
363	10.250	31.93	0.0	0.0	0.0	4.40	3.44	0.00	3.44	0.00	1.00	0.14	0.00	1.14	0.00	32.9	0.0	0.	0.00
364	10.000	31.93	0.0	0.0	0.0	4.41	3.43	0.00	3.43	0.00	1.00	0.14	0.00	1.13	0.00	32.7	0.0	0.	0.00
365	9.750	31.93	0.0	0.0	0.0	4.42	3.42	0.00	3.42	0.00	0.99	0.13	0.00	1.12	0.00	32.5	0.0	0.	0.00
366	9.500	31.93	0.0	0.0	0.0	4.43	3.41	0.00	3.41	0.00	0.99	0.12	0.00	1.11	0.00	32.2	0.0	0.	0.00
367	9.250	31.93	0.0	0.0	0.0	4.44	3.40	0.00	3.40	0.00	0.99	0.11	0.00	1.11	0.00	32.0	0.0	0.	0.00
368	9.000	31.93	0.0	0.0	0.0	4.45	3.39	0.00	3.39	0.00	0.99	0.11	0.00	1.10	0.00	31.8	0.0	0.	0.00
369	8.750	31.93	0.0	0.0	0.0	4.45	3.42	0.00	3.42	0.00	0.99	0.11	0.00	1.10	0.00	31.6	0.0	0.	0.00
370	8.500	31.93	0.0	0.0	0.0	4.46	3.41	0.00	3.41	0.00	0.99	0.10	0.00	1.09	0.00	31.4	0.0	0.	0.00
371	8.250	31.93	0.0	0.0	0.0	4.46	3.40	0.00	3.40	0.00	0.99	0.10	0.00	1.09	0.00	31.1	0.0	0.	0.00
372	8.000	31.93	0.0	0.0	0.0	4.46	3.39	0.00	3.39	0.00	0.99	0.10	0.00	1.08	0.00	30.9	0.0	0.	0.00
373	7.750	31.93	0.0	0.0	0.0	7.67	5.61	0.00	5.61	0.00	1.23	0.10	0.00	1.33	0.00	30.7	0.0	0.	0.00
374	7.500	31.92	0.0	0.0	0.0	7.33	5.53	0.00	5.53	0.00	1.23	0.10	0.00	1.33	0.00	30.5	0.0	0.	0.00
375	7.250	31.92	0.0	0.0	0.0	7.02	5.45	0.00	5.45	0.00	1.23	0.09	0.00	1.33	0.00	30.3	0.0	0.	0.00
376	7.000	31.92	0.0	0.0	0.0	6.74	5.37	0.00	5.37	0.00	1.23	0.09	0.00	1.32	0.00	30.1	0.0	0.	0.00
377	6.750	31.92	0.0	0.0	0.0	6.48	5.30	0.00	5.30	0.00	1.23	0.09	0.00	1.32	0.00	29.9	0.0	0.	0.00
378	6.500	31.92	0.0	0.0	0.0	6.25	5.23	0.00	5.23	0.00	1.23	0.09	0.00	1.32	0.00	29.6	0.0	0.	0.00
379	6.250	31.92	0.0	0.0	0.0	6.03	5.16	0.00	5.16	0.00	1.22	0.09	0.00	1.31	0.00	29.4	0.0	0.	0.00
380	6.000	31.92	0.0	0.0	0.0	5.84	5.10	0.00	5.10	0.00	1.22	0.09	0.00	1.31	0.00	29.2	0.0	0.	0.00
381	5.750	31.92	0.0	0.0	0.0	5.66	5.03	0.00	5.03	0.00	1.22	0.09	0.00	1.31	0.00	29.0	0.0	0.	0.00
382	5.500	31.92	0.0	0.0	0.0	5.50	4.97	0.00	4.97	0.00	1.22	0.09	0.00	1.31	0.00	28.8	0.0	0.	0.00
383	5.250	31.92	0.0	0.0	0.0	5.36	4.91	0.00	4.91	0.00	1.22	0.09	0.00	1.30	0.00	28.5	0.0	0.	0.00
384	5.000	31.92	0.0	0.0	0.0	5.23	4.86	0.00	4.86	0.00	1.22	0.09	0.00	1.30	0.00	28.3	0.0	0.	0.00
385	4.750	31.92	0.0	0.0	0.0	5.11	4.80	0.00	4.80	0.00	1.21	0.09	0.00	1.30	0.00	28.1	0.0	0.	0.00
386	4.500	31.91	0.0	0.0	0.0	5.00	4.75	0.00	4.75	0.00	1.21	0.09	0.00	1.30	0.00	27.9	0.0	0.	0.00
387	4.250	31.91	0.0	0.0	0.0	4.90	4.70	0.00	4.70	0.00	1.21	0.09	0.00	1.30	0.00	27.7	0.0	0.	0.00
388	4.000	31.91	0.0	0.0	0.0	4.81	4.65	0.00	4.65	0.00	1.21	0.09	0.00	1.29	0.00	27.5	0.0	0.	0.00
389	3.750	31.91	0.0	0.0	0.0	4.73	4.61	0.00	4.61	0.00	1.21	0.08	0.00	1.29	0.00	27.2	0.0	0.	0.00
390	3.500	31.91	0.0	0.0	0.0	4.65	4.56	0.00	4.56	0.00	1.21	0.08	0.00	1.29	0.00	27.0	0.0	0.	0.00
391	3.250	31.91	0.0	0.0	0.0	4.58	4.52	0.00	4.52	0.00	1.20	0.08	0.00	1.29	0.00	26.8	0.0	0.	0.00
392	3.000	31.91	0.0	0.0	0.0	4.52	4.48	0.00	4.48	0.00	1.20	0.08	0.00	1.29	0.00	26.6	0.0	0.	0.00
393	2.750	31.91	0.0	0.0	0.0	4.46	4.44	0.00	4.44	0.00	1.20	0.08	0.00	1.28	0.00	26.4	0.0	0.	0.00
394	2.500	31.91	0.0	0.0	0.0	4.41	4.40	0.00	4.40	0.00	1.20	0.08	0.00	1.28	0.00	26.2	0.0	0.	0.00
395	2.250	31.91	0.0	0.0	0.0	4.36	4.36	0.00	4.36	0.00	1.20	0.08	0.00	1.28	0.00	25.9	0.0	0.	0.00
396	2.000	31.91	0.0	0.0	0.0	4.32	4.33	0.00	4.33	0.00	1.20	0.08	0.00	1.28	0.00	25.7	0.0	0.	0.00
397	1.750	31.91	0.0	0.0	0.0	4.28	4.29	0.00	4.29	0.00	1.20	0.08	0.00	1.28	0.00	25.5	0.0	0.	0.00
398	1.500	31.90	0.0	0.0	0.0	4.25	4.26	0.00	4.26	0.00	1.19	0.08	0.00	1.28	0.00	25.3	0.0	0.	0.00
399	1.250	31.90	0.0	0.0	0.0	4.21	4.23	0.00	4.23	0.00	1.19	0.08	0.00	1.27	0.00	25.1	0.0	0.	0.00
400	1.000	31.90	0.0	0.0	0.0	4.18	4.19	0.00	4.19	0.00	1.19	0.08	0.00	1.27	0.00	24.9	0.0	0.	0.00
401	0.750	31.90	0.0	0.0	0.0	3.06	7.20	0.00	7.20	0.00	1.45	0.12	0.00	1.56	0.00	24.6	0.0	0.	0.00
402	0.500	31.90	0.0	0.0	0.0	3.04	7.15	0.00	7.15	0.00	1.45	0.12	0.00	1.56	0.00	24.4	0.0	0.	0.00
403	0.250	31.90	0.0	0.0	0.0	3.03	7.10	0.00	7.10	0.00	1.45	0.12	0.00	1.56	0.00	24.2	0.0	0.	0.00
404	0.000	31.90	0.0	0.0	0.0	3.02	7.04	0.00	7.04	0.00	1.44	0.12	0.00	1.56	0.00	24.0	0.0	0.	0.00

SPECIAL REPORT: ICWW
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	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 SETT	NCM

	km	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da		
1	93.750	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
2	93.500	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
3	93.250	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
4	93.000	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
5	92.750	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
6	92.500	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
7	92.250	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
8	92.000	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
9	91.750	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
10	91.500	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
11	91.250	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
12	91.000	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
13	90.750	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
14	90.500	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
15	90.250	7.36	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
16	90.000	7.36	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
17	89.750	7.36	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
18	89.500	7.36	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
19	89.250	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
20	89.000	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
21	88.750	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
22	88.500	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
23	88.250	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
24	88.000	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
25	87.750	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
26	87.500	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
27	87.250	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
28	87.000	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
29	86.750	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
30	86.500	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
31	86.250	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
32	86.000	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
33	85.750	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
34	85.500	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
35	85.250	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
36	85.000	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
37	84.750	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
38	84.500	7.30	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
39	84.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
40	84.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
41	83.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
42	83.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
43	83.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
44	83.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
45	82.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
46	82.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
47	82.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
48	82.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

49	81.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
50	81.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
51	81.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
52	81.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
53	80.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
54	80.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
55	80.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
56	80.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
57	79.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
58	79.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
59	79.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
60	79.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
61	78.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
62	78.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
63	78.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
64	78.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
65	77.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
66	77.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
67	77.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
68	77.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
69	76.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
70	76.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
71	76.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
72	76.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
73	75.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
74	75.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
75	75.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
76	75.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
77	74.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
78	74.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
79	74.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
80	74.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
81	73.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
82	73.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
83	73.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
84	73.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
85	72.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
86	72.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
87	72.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
88	72.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
89	71.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
90	71.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
91	71.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
92	71.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
93	70.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
94	70.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
95	70.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
96	70.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
97	69.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
98	69.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00

99	69.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
100	69.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
101	68.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
102	68.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
103	68.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
104	68.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
105	67.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
106	67.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
107	67.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
108	67.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
109	66.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
110	66.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
111	66.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
112	66.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
113	65.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
114	65.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
115	65.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
116	65.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
117	64.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
118	64.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
119	64.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
120	64.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
121	63.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
122	63.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
123	63.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
124	63.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
125	62.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
126	62.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
127	62.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
128	62.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
129	61.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
130	61.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
131	61.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
132	61.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
133	60.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
134	60.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
135	60.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
136	60.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
137	59.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
138	59.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
139	59.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
140	59.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
141	58.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
142	58.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
143	58.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
144	58.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
145	57.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
146	57.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
147	57.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
148	57.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00

149	56.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
150	56.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
151	56.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
152	56.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
153	55.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
154	55.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
155	55.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
156	55.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
157	54.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
158	54.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
159	54.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
160	54.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
161	53.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
162	53.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
163	53.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
164	53.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
165	52.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
166	52.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
167	52.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
168	52.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
169	51.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
170	51.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
171	51.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
172	51.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
173	50.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
174	50.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
175	50.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
176	50.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
177	49.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
178	49.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
179	49.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
180	49.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
181	48.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
182	48.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
183	48.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
184	48.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
185	47.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
186	47.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
187	47.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
188	47.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
189	46.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
190	46.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
191	46.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
192	46.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
193	45.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
194	45.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
195	45.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
196	45.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
197	44.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
198	44.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00

199	44.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
200	44.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
201	43.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
202	43.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
203	43.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
204	43.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
205	42.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
206	42.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
207	42.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
208	42.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
209	41.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
210	41.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
211	41.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
212	41.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
213	40.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
214	40.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
215	40.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
216	40.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
217	39.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
218	39.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
219	39.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
220	39.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
221	38.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
222	38.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
223	38.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
224	38.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
405	37.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
406	37.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
407	37.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
408	37.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
409	36.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
410	36.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
411	36.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
412	36.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
413	35.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
414	35.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
415	35.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
416	35.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
417	34.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
418	34.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
419	34.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
420	34.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
421	33.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
422	33.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
423	33.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
424	33.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
425	32.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
426	32.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
427	32.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
428	32.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00

429	31.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
430	31.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
431	31.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
432	31.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
433	30.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
434	30.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
435	30.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
436	30.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
437	29.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
438	29.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
439	29.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
440	29.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
441	28.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
442	28.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
443	28.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
444	28.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
445	27.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
446	27.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
447	27.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
448	27.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
449	26.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
450	26.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
451	26.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
452	26.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
453	25.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
454	25.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
455	25.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
456	25.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
457	24.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
458	24.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
459	24.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
460	24.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
461	23.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
462	23.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
463	23.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
464	23.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
465	22.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
466	22.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
467	22.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
468	22.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
469	21.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
470	21.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
471	21.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
472	21.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
473	20.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
474	20.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
475	20.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
476	20.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
477	19.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
478	19.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00

479	19.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
480	19.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
481	18.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
482	18.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
483	18.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
484	18.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
485	17.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
486	17.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
487	17.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
488	17.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
489	16.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
490	16.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
491	16.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
492	16.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
493	15.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
494	15.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
495	15.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
496	15.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
497	14.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
498	14.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
499	14.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
500	14.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
501	13.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
502	13.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
503	13.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
504	13.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
505	12.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
506	12.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
507	12.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
508	12.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
509	11.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
510	11.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
511	11.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
512	11.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
513	10.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
514	10.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
515	10.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
516	10.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
517	9.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
518	9.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
519	9.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
520	9.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
521	8.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
522	8.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
523	8.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
524	8.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
525	7.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
526	7.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
527	7.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
528	7.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00

529	6.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
530	6.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
531	6.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
532	6.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
533	5.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
534	5.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
535	5.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
536	5.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
537	4.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
538	4.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
539	4.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
540	4.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
541	3.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
542	3.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
543	3.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
544	3.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
545	2.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
546	2.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
547	2.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
548	2.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
549	1.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
550	1.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
551	1.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
552	1.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
553	0.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
554	0.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
555	0.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
556	0.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00

SPECIAL REPORT: Bayou Black
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	ABOD#2 SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORG-N SETT **	ORG-N DECAY **	NH3 SRCE 1/da	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
225	44.750	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
226	44.500	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
227	44.250	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
228	44.000	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
229	43.750	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
230	43.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
231	43.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
232	43.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
233	42.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
234	42.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
235	42.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
236	42.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
237	41.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00

238	41.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
239	41.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
240	41.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
241	40.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
242	40.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
243	40.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
244	40.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
245	39.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
246	39.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
247	39.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
248	39.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
249	38.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
250	38.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
251	38.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
252	38.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.44	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
253	37.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
254	37.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
255	37.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
256	37.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
257	36.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
258	36.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
259	36.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
260	36.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
261	35.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
262	35.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
263	35.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
264	35.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
265	34.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
266	34.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
267	34.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
268	34.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
269	33.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
270	33.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
271	33.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
272	33.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
273	32.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
274	32.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
275	32.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
276	32.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
277	31.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
278	31.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
279	31.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
280	31.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
281	30.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
282	30.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
283	30.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
284	30.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
285	29.750	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
286	29.500	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
287	29.250	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00

288	29.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
289	28.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.21	0.00	0.00	0.00	0.00
290	28.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
291	28.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
292	28.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00
293	27.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00
294	27.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
295	27.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
296	27.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.14	0.00	0.00	0.00	0.00
297	26.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
298	26.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
299	26.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
300	26.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
301	25.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
302	25.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
303	25.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
304	25.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
305	24.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
306	24.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.00
307	24.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
308	24.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
309	23.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00
310	23.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
311	23.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.99	0.00	0.00	0.00	0.00
312	23.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00
313	22.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
314	22.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.96	0.00	0.00	0.00	0.00
315	22.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00
316	22.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.00
317	21.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
318	21.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
319	21.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.00
320	21.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
321	20.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.89	0.00	0.00	0.00	0.00
322	20.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00
323	20.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
324	20.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.00
325	19.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
326	19.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
327	19.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
328	19.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
329	18.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
330	18.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
331	18.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00
332	18.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00
333	17.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
334	17.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00
335	17.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00
336	17.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
337	16.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00

338	16.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
339	16.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
340	16.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
341	15.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
342	15.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
343	15.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
344	15.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
345	14.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
346	14.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
347	14.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
348	14.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
349	13.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
350	13.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
351	13.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
352	13.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
353	12.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
354	12.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.00
355	12.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
356	12.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
357	11.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00
358	11.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00
359	11.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
360	11.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
361	10.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00
362	10.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
363	10.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
364	10.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
365	9.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
366	9.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
367	9.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00
368	9.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
369	8.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
370	8.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
371	8.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
372	8.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
373	7.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.44	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
374	7.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.44	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
375	7.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.44	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
376	7.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
377	6.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
378	6.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
379	6.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
380	6.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
381	5.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
382	5.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
383	5.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
384	5.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
385	4.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
386	4.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
387	4.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00

388	4.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
389	3.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
390	3.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
391	3.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
392	3.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
393	2.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
394	2.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
395	2.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00
396	2.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
397	1.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
398	1.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
399	1.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
400	1.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
401	0.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
402	0.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
403	0.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
404	0.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00

SPECIAL REPORT: ICWW
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	ADVCTV VELO	DEPTH	WIDTH	VOLUME AREA	SURFACE AREA	PRISM	X-SECT VELO	TIDAL	TIDAL VELO	DISPRSN	MEAN
	km	km	m³/s	m/s	m	m	m³	m²	m²	m³	m/s	m²/s	m/s	
1	94.00	93.75	0.2813	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
2	93.75	93.50	0.3076	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
3	93.50	93.25	0.3339	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
4	93.25	93.00	0.3603	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
5	93.00	92.75	0.3866	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
6	92.75	92.50	0.4129	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
7	92.50	92.25	0.4392	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
8	92.25	92.00	0.4655	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
9	92.00	91.75	0.4918	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
10	91.75	91.50	0.5182	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
11	91.50	91.25	0.5445	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
12	91.25	91.00	0.5708	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
13	91.00	90.75	0.5971	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
14	90.75	90.50	0.6234	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
15	90.50	90.25	0.6497	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
16	90.25	90.00	0.6761	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
17	90.00	89.75	0.7024	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
18	89.75	89.50	0.7287	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
19	89.50	89.25	0.7550	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
20	89.25	89.00	0.7813	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
21	89.00	88.75	0.8076	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
22	88.75	88.50	0.8339	0.000	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.000	
23	88.50	88.25	0.8603	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001	
24	88.25	88.00	0.8866	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001	

25	88.00	87.75	0.9129	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
26	87.75	87.50	0.9392	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
27	87.50	87.25	0.9655	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
28	87.25	87.00	0.9918	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
29	87.00	86.75	1.0182	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
30	86.75	86.50	1.0445	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
31	86.50	86.25	1.0708	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
32	86.25	86.00	1.0971	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
33	86.00	85.75	1.1234	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
34	85.75	85.50	1.1497	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
35	85.50	85.25	1.1761	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
36	85.25	85.00	1.2024	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
37	85.00	84.75	1.2287	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
38	84.75	84.50	1.2550	0.001	9.30	182.5	424289.	45622.5	1697.2	0.	0.000	0.000	0.001
39	84.50	84.25	49.1765	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
40	84.25	84.00	49.1930	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
41	84.00	83.75	49.2094	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
42	83.75	83.50	49.2259	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
43	83.50	83.25	49.2423	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
44	83.25	83.00	49.2587	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
45	83.00	82.75	49.2752	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
46	82.75	82.50	49.2916	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
47	82.50	82.25	49.3081	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
48	82.25	82.00	49.3245	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
49	82.00	81.75	49.3409	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
50	81.75	81.50	49.3574	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
51	81.50	81.25	49.3738	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
52	81.25	81.00	49.3903	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
53	81.00	80.75	49.4067	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
54	80.75	80.50	49.4232	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
55	80.50	80.25	49.4396	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
56	80.25	80.00	49.4560	0.018	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.018
57	80.00	79.75	12.9967	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
58	79.75	79.50	13.0131	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
59	79.50	79.25	13.0296	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
60	79.25	79.00	13.0460	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
61	79.00	78.75	13.0624	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
62	78.75	78.50	13.0789	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
63	78.50	78.25	13.0953	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
64	78.25	78.00	13.1118	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
65	78.00	77.75	13.1282	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
66	77.75	77.50	13.1447	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
67	77.50	77.25	13.1611	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
68	77.25	77.00	13.1775	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
69	77.00	76.75	13.1940	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
70	76.75	76.50	13.2104	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
71	76.50	76.25	13.2269	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
72	76.25	76.00	13.2433	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
73	76.00	75.75	13.2598	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
74	75.75	75.50	13.2762	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005

75	75.50	75.25	13.2926	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
76	75.25	75.00	13.3091	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
77	75.00	74.75	13.3255	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
78	74.75	74.50	13.3420	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
79	74.50	74.25	13.3584	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
80	74.25	74.00	13.3749	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
81	74.00	73.75	13.3913	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
82	73.75	73.50	13.4077	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
83	73.50	73.25	13.4242	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
84	73.25	73.00	13.4406	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
85	73.00	72.75	13.4571	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
86	72.75	72.50	13.4735	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
87	72.50	72.25	13.4899	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
88	72.25	72.00	13.5064	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
89	72.00	71.75	15.0800	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
90	71.75	71.50	15.0965	0.005	13.35	209.1	697738.	52265.0	2791.0	0.	0.000	0.000	0.005
91	71.50	71.25	15.1129	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
92	71.25	71.00	15.1294	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
93	71.00	70.75	15.1458	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
94	70.75	70.50	15.1623	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
95	70.50	70.25	15.1787	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
96	70.25	70.00	15.1952	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
97	70.00	69.75	15.2116	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
98	69.75	69.50	15.2280	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
99	69.50	69.25	15.2445	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
100	69.25	69.00	15.2609	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
101	69.00	68.75	15.2774	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
102	68.75	68.50	15.2938	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
103	68.50	68.25	15.3103	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
104	68.25	68.00	15.3267	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
105	68.00	67.75	15.3432	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
106	67.75	67.50	15.3596	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
107	67.50	67.25	15.3761	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
108	67.25	67.00	15.3925	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
109	67.00	66.75	15.4090	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
110	66.75	66.50	15.4254	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
111	66.50	66.25	15.4419	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
112	66.25	66.00	15.4583	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
113	66.00	65.75	15.4748	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
114	65.75	65.50	15.4912	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
115	65.50	65.25	15.5076	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
116	65.25	65.00	15.5241	0.003	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.003
117	65.00	64.75	30.8294	0.006	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.006
118	64.75	64.50	30.8458	0.006	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.006
119	64.50	64.25	30.8623	0.006	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.006
120	64.25	64.00	30.8787	0.006	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.006
121	64.00	63.75	30.8952	0.006	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.006
122	63.75	63.50	30.9116	0.006	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.006
123	63.50	63.25	30.9281	0.006	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.006
124	63.25	63.00	30.9445	0.006	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.006

125	63.00	62.75	30.9610	0.006	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.006
126	62.75	62.50	30.9774	0.006	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.006
127	62.50	62.25	30.9939	0.006	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.006
128	62.25	62.00	31.0103	0.006	12.77	395.3	1261995.	98825.0	5048.0	0.	0.000	0.000	0.006
129	62.00	61.75	31.0268	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
130	61.75	61.50	31.0432	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
131	61.50	61.25	31.0596	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
132	61.25	61.00	31.0761	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
133	61.00	60.75	31.0925	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
134	60.75	60.50	31.1089	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
135	60.50	60.25	31.1254	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
136	60.25	60.00	31.1418	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
137	60.00	59.75	31.1583	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
138	59.75	59.50	31.1747	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
139	59.50	59.25	31.1911	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
140	59.25	59.00	31.2076	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
141	59.00	58.75	31.2240	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
142	58.75	58.50	31.2404	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
143	58.50	58.25	31.2569	0.013	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.013
144	58.25	58.00	31.2733	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
145	58.00	57.75	31.2898	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
146	57.75	57.50	31.3062	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
147	57.50	57.25	31.3226	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
148	57.25	57.00	31.3391	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
149	57.00	56.75	31.3555	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
150	56.75	56.50	31.3719	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
151	56.50	56.25	31.3884	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
152	56.25	56.00	31.4048	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
153	56.00	55.75	31.4213	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
154	55.75	55.50	31.4377	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
155	55.50	55.25	31.4541	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
156	55.25	55.00	31.4706	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
157	55.00	54.75	31.4870	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
158	54.75	54.50	31.5034	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
159	54.50	54.25	31.5199	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
160	54.25	54.00	31.5363	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
161	54.00	53.75	31.5528	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
162	53.75	53.50	31.5692	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
163	53.50	53.25	31.5856	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
164	53.25	53.00	31.6021	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
165	53.00	52.75	31.6185	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
166	52.75	52.50	31.6349	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
167	52.50	52.25	31.6514	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
168	52.25	52.00	31.6678	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
169	52.00	51.75	31.6843	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
170	51.75	51.50	31.7007	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
171	51.50	51.25	31.7171	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
172	51.25	51.00	31.7336	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
173	51.00	50.75	31.7500	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
174	50.75	50.50	31.7664	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014

175	50.50	50.25	31.7829	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
176	50.25	50.00	31.7993	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
177	50.00	49.75	31.8158	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
178	49.75	49.50	31.8322	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
179	49.50	49.25	31.8486	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
180	49.25	49.00	31.8651	0.014	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.014
181	49.00	48.75	35.8311	0.015	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.015
182	48.75	48.50	35.8476	0.015	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.015
183	48.50	48.25	35.8640	0.015	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.015
184	48.25	48.00	35.8805	0.015	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.015
185	48.00	47.75	35.8969	0.015	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.015
186	47.75	47.50	35.9133	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
187	47.50	47.25	35.9298	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
188	47.25	47.00	35.9462	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
189	47.00	46.75	35.9626	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
190	46.75	46.50	35.9791	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
191	46.50	46.25	35.9955	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
192	46.25	46.00	36.0120	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
193	46.00	45.75	36.0284	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
194	45.75	45.50	36.0448	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
195	45.50	45.25	36.0613	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
196	45.25	45.00	36.0777	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
197	45.00	44.75	36.0941	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
198	44.75	44.50	36.1106	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
199	44.50	44.25	36.1270	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
200	44.25	44.00	36.1435	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
201	44.00	43.75	36.1599	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
202	43.75	43.50	36.1763	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
203	43.50	43.25	36.1928	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
204	43.25	43.00	36.2092	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
205	43.00	42.75	36.2256	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
206	42.75	42.50	36.2421	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
207	42.50	42.25	36.2585	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
208	42.25	42.00	36.2750	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
209	42.00	41.75	36.2914	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
210	41.75	41.50	36.3078	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
211	41.50	41.25	36.3243	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
212	41.25	41.00	36.3407	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
213	41.00	40.75	36.3571	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
214	40.75	40.50	36.3736	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
215	40.50	40.25	36.3900	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
216	40.25	40.00	36.4065	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
217	40.00	39.75	36.4229	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
218	39.75	39.50	36.4393	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
219	39.50	39.25	36.4558	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
220	39.25	39.00	36.4722	0.016	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.016
221	39.00	38.75	12.6776	0.005	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.005
222	38.75	38.50	12.6941	0.005	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.005
223	38.50	38.25	12.7105	0.005	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.005
224	38.25	38.00	12.7270	0.005	12.19	190.0	579025.	47500.0	2316.1	0.	0.000	0.000	0.005

405	38.00	37.75	14.9690	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
406	37.75	37.50	14.9904	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
407	37.50	37.25	15.0118	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
408	37.25	37.00	15.0332	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
409	37.00	36.75	15.0547	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
410	36.75	36.50	15.0761	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
411	36.50	36.25	15.0975	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
412	36.25	36.00	15.1189	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
413	36.00	35.75	15.5934	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
414	35.75	35.50	15.6148	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
415	35.50	35.25	15.6362	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
416	35.25	35.00	15.6576	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
417	35.00	34.75	15.6790	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
418	34.75	34.50	15.7005	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
419	34.50	34.25	15.7219	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
420	34.25	34.00	15.7433	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
421	34.00	33.75	15.7647	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
422	33.75	33.50	15.7862	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
423	33.50	33.25	15.8076	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
424	33.25	33.00	15.8290	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
425	33.00	32.75	15.8504	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
426	32.75	32.50	15.8718	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
427	32.50	32.25	15.8933	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
428	32.25	32.00	15.9147	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
429	32.00	31.75	15.9361	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
430	31.75	31.50	15.9575	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
431	31.50	31.25	15.9789	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
432	31.25	31.00	16.0004	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
433	31.00	30.75	16.0218	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
434	30.75	30.50	16.0432	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
435	30.50	30.25	16.0646	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
436	30.25	30.00	16.0861	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
437	30.00	29.75	16.1075	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
438	29.75	29.50	16.1289	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
439	29.50	29.25	16.1503	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
440	29.25	29.00	16.1717	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
441	29.00	28.75	16.1932	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
442	28.75	28.50	16.2146	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
443	28.50	28.25	16.2360	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
444	28.25	28.00	16.2574	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
445	28.00	27.75	16.2788	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
446	27.75	27.50	16.3003	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
447	27.50	27.25	16.3217	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
448	27.25	27.00	16.3431	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
449	27.00	26.75	16.3645	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
450	26.75	26.50	16.3860	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
451	26.50	26.25	16.4074	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
452	26.25	26.00	16.4288	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
453	26.00	25.75	16.4502	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
454	25.75	25.50	16.4716	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008

455	25.50	25.25	16.4931	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
456	25.25	25.00	16.5145	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
457	25.00	24.75	16.5359	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
458	24.75	24.50	16.5573	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
459	24.50	24.25	16.5787	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
460	24.25	24.00	16.6002	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
461	24.00	23.75	16.6216	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
462	23.75	23.50	16.6431	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
463	23.50	23.25	16.6645	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
464	23.25	23.00	16.6859	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
465	23.00	22.75	16.7073	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
466	22.75	22.50	16.7287	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
467	22.50	22.25	16.7536	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
468	22.25	22.00	16.7750	0.008	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.008
469	22.00	21.75	20.4205	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
470	21.75	21.50	20.4419	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
471	21.50	21.25	20.4633	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
472	21.25	21.00	20.4847	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
473	21.00	20.75	20.5062	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
474	20.75	20.50	20.5276	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
475	20.50	20.25	20.5490	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
476	20.25	20.00	20.5704	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
477	20.00	19.75	20.5919	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
478	19.75	19.50	20.6133	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
479	19.50	19.25	20.6347	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
480	19.25	19.00	20.6561	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
481	19.00	18.75	20.6775	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
482	18.75	18.50	20.6990	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
483	18.50	18.25	20.7204	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
484	18.25	18.00	20.7418	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
485	18.00	17.75	20.7632	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
486	17.75	17.50	20.7846	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
487	17.50	17.25	20.8061	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
488	17.25	17.00	20.8275	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
489	17.00	16.75	20.8489	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
490	16.75	16.50	20.8703	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
491	16.50	16.25	20.8918	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
492	16.25	16.00	20.9132	0.010	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.010
493	16.00	15.75	21.3876	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
494	15.75	15.50	21.4090	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
495	15.50	15.25	21.4304	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
496	15.25	15.00	21.4519	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
497	15.00	14.75	21.4733	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
498	14.75	14.50	21.4947	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
499	14.50	14.25	21.5161	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
500	14.25	14.00	21.5375	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
501	14.00	13.75	21.5590	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
502	13.75	13.50	21.5804	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
503	13.50	13.25	21.6018	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
504	13.25	13.00	21.6232	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011

505	13.00	12.75	21.6447	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
506	12.75	12.50	21.6661	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
507	12.50	12.25	21.6875	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
508	12.25	12.00	21.7089	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
509	12.00	11.75	21.7303	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
510	11.75	11.50	21.7518	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
511	11.50	11.25	21.7732	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
512	11.25	11.00	21.7946	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
513	11.00	10.75	21.8160	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
514	10.75	10.50	21.8374	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
515	10.50	10.25	21.8589	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
516	10.25	10.00	21.8803	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
517	10.00	9.75	21.9017	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
518	9.75	9.50	21.9231	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
519	9.50	9.25	21.9446	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
520	9.25	9.00	21.9660	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
521	9.00	8.75	21.9874	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
522	8.75	8.50	22.0088	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
523	8.50	8.25	22.0302	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
524	8.25	8.00	22.0517	0.011	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.011
525	8.00	7.75	23.2905	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
526	7.75	7.50	23.3120	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
527	7.50	7.25	23.3334	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
528	7.25	7.00	23.3548	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
529	7.00	6.75	23.3762	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
530	6.75	6.50	23.3976	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
531	6.50	6.25	23.4191	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
532	6.25	6.00	23.4405	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
533	6.00	5.75	23.4619	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
534	5.75	5.50	23.4833	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
535	5.50	5.25	23.5047	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
536	5.25	5.00	23.5262	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
537	5.00	4.75	23.5476	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
538	4.75	4.50	23.5690	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
539	4.50	4.25	23.5904	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
540	4.25	4.00	23.6119	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
541	4.00	3.75	23.2369	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
542	3.75	3.50	23.2583	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
543	3.50	3.25	23.2797	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
544	3.25	3.00	23.3012	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
545	3.00	2.75	23.3226	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
546	2.75	2.50	23.3440	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
547	2.50	2.25	23.3654	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
548	2.25	2.00	23.3868	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
549	2.00	1.75	23.4083	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
550	1.75	1.50	23.4297	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
551	1.50	1.25	23.4511	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
552	1.25	1.00	23.4726	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
553	1.00	0.75	23.4940	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
554	0.75	0.50	23.5154	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012

555	0.50	0.25	23.5368	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012
556	0.25	0.00	23.5583	0.012	12.80	155.8	498560.	38950.0	1994.2	0.	0.000	0.000	0.012

SPECIAL REPORT: Bayou Black
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW VELO	ADVCTV	DEPTH	WIDTH	VOLUME AREA	SURFACE AREA	X-SECT PRISM	TIDAL VELO	TIDAL	DISPRSN	MEAN
	km	km	m³/s	m/s	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
225	45.00	44.75	0.0110	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
226	44.75	44.50	0.0150	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
227	44.50	44.25	0.0190	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
228	44.25	44.00	0.0230	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
229	44.00	43.75	0.0270	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
230	43.75	43.50	0.0310	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
231	43.50	43.25	0.0350	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
232	43.25	43.00	0.0390	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
233	43.00	42.75	0.0430	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
234	42.75	42.50	0.0470	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
235	42.50	42.25	0.0510	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
236	42.25	42.00	0.0550	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
237	42.00	41.75	0.0590	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
238	41.75	41.50	0.0630	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
239	41.50	41.25	0.0670	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
240	41.25	41.00	0.0710	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
241	41.00	40.75	0.0750	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
242	40.75	40.50	0.0790	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
243	40.50	40.25	0.0830	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
244	40.25	40.00	0.0870	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
245	40.00	39.75	0.0910	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
246	39.75	39.50	0.0950	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
247	39.50	39.25	0.0990	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
248	39.25	39.00	0.1030	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
249	39.00	38.75	0.1070	0.000	4.57	196.7	224741.	49177.5	899.0	0.	0.000	0.000	0.000
250	38.75	38.50	0.1099	0.003	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.003
251	38.50	38.25	0.1127	0.003	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.003
252	38.25	38.00	0.1156	0.003	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.003
253	38.00	37.75	0.1184	0.003	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.003
254	37.75	37.50	0.1213	0.003	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.003
255	37.50	37.25	0.1241	0.003	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.003
256	37.25	37.00	0.1270	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004
257	37.00	36.75	0.1299	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004
258	36.75	36.50	0.1327	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004
259	36.50	36.25	0.1356	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004
260	36.25	36.00	0.1386	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004
261	36.00	35.75	0.1414	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004
262	35.75	35.50	0.1443	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004
263	35.50	35.25	0.1471	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004

264	35.25	35.00	0.1500	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004
265	35.00	34.75	0.1529	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004
266	34.75	34.50	0.1557	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004
267	34.50	34.25	0.1586	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004
268	34.25	34.00	0.1615	0.004	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.004
269	34.00	33.75	0.1643	0.005	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.005
270	33.75	33.50	0.1672	0.005	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.005
271	33.50	33.25	0.1700	0.005	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.005
272	33.25	33.00	0.1729	0.005	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.005
273	33.00	32.75	0.1758	0.005	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.005
274	32.75	32.50	0.1786	0.005	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.005
275	32.50	32.25	0.1815	0.005	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.005
276	32.25	32.00	0.1843	0.005	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.005
277	32.00	31.75	0.1872	0.005	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.005
278	31.75	31.50	0.1915	0.005	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.005
279	31.50	31.25	0.1944	0.005	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.005
280	31.25	31.00	0.1973	0.005	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.005
281	31.00	30.75	0.2001	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
282	30.75	30.50	0.2030	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
283	30.50	30.25	0.2058	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
284	30.25	30.00	0.2087	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
285	30.00	29.75	0.2101	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
286	29.75	29.50	0.2115	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
287	29.50	29.25	0.2130	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
288	29.25	29.00	0.2144	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
289	29.00	28.75	0.2158	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
290	28.75	28.50	0.2173	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
291	28.50	28.25	0.2187	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
292	28.25	28.00	0.2221	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
293	28.00	27.75	0.2235	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
294	27.75	27.50	0.2249	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
295	27.50	27.25	0.2264	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
296	27.25	27.00	0.2278	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
297	27.00	26.75	0.2292	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
298	26.75	26.50	0.2307	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
299	26.50	26.25	0.2321	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
300	26.25	26.00	0.2335	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
301	26.00	25.75	0.2350	0.006	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.006
302	25.75	25.50	0.2364	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
303	25.50	25.25	0.2378	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
304	25.25	25.00	0.2393	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
305	25.00	24.75	0.2407	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
306	24.75	24.50	0.2421	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
307	24.50	24.25	0.2436	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
308	24.25	24.00	0.2450	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
309	24.00	23.75	0.2464	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
310	23.75	23.50	0.2479	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
311	23.50	23.25	0.2493	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
312	23.25	23.00	0.2514	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
313	23.00	22.75	0.2529	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007

314	22.75	22.50	0.2543	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
315	22.50	22.25	0.2557	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
316	22.25	22.00	0.2572	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
317	22.00	21.75	0.2586	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
318	21.75	21.50	0.2600	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
319	21.50	21.25	0.2615	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
320	21.25	21.00	0.2629	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
321	21.00	20.75	0.2643	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
322	20.75	20.50	0.2658	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
323	20.50	20.25	0.2672	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
324	20.25	20.00	0.2686	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
325	20.00	19.75	0.2701	0.007	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.007
326	19.75	19.50	0.2715	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
327	19.50	19.25	0.2729	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
328	19.25	19.00	0.2744	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
329	19.00	18.75	0.2758	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
330	18.75	18.50	0.2772	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
331	18.50	18.25	0.2789	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
332	18.25	18.00	0.2803	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
333	18.00	17.75	0.2817	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
334	17.75	17.50	0.2832	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
335	17.50	17.25	0.2846	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
336	17.25	17.00	0.2860	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
337	17.00	16.75	0.2875	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
338	16.75	16.50	0.2889	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
339	16.50	16.25	0.2907	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
340	16.25	16.00	0.2922	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
341	16.00	15.75	0.2936	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
342	15.75	15.50	0.2950	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
343	15.50	15.25	0.2965	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
344	15.25	15.00	0.2979	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
345	15.00	14.75	0.2993	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
346	14.75	14.50	0.3008	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
347	14.50	14.25	0.3022	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
348	14.25	14.00	0.3036	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
349	14.00	13.75	0.3051	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
350	13.75	13.50	0.3065	0.008	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.008
351	13.50	13.25	0.3079	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
352	13.25	13.00	0.3150	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
353	13.00	12.75	0.3165	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
354	12.75	12.50	0.3179	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
355	12.50	12.25	0.3193	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
356	12.25	12.00	0.3208	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
357	12.00	11.75	0.3222	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
358	11.75	11.50	0.3236	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
359	11.50	11.25	0.3251	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
360	11.25	11.00	0.3265	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
361	11.00	10.75	0.3279	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
362	10.75	10.50	0.3294	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
363	10.50	10.25	0.3308	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009

364	10.25	10.00	0.3322	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
365	10.00	9.75	0.3337	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
366	9.75	9.50	0.3351	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
367	9.50	9.25	0.3365	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
368	9.25	9.00	0.3380	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
369	9.00	8.75	0.3410	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
370	8.75	8.50	0.3424	0.009	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.009
371	8.50	8.25	0.3439	0.010	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.010
372	8.25	8.00	0.3453	0.010	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.010
373	8.00	7.75	0.8734	0.024	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.024
374	7.75	7.50	0.8748	0.024	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.024
375	7.50	7.25	0.8762	0.024	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.024
376	7.25	7.00	0.8777	0.024	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.024
377	7.00	6.75	0.8791	0.024	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.024
378	6.75	6.50	0.8805	0.024	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.024
379	6.50	6.25	0.8820	0.024	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.024
380	6.25	6.00	0.8834	0.024	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.024
381	6.00	5.75	0.8848	0.024	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.024
382	5.75	5.50	0.8863	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
383	5.50	5.25	0.8877	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
384	5.25	5.00	0.8891	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
385	5.00	4.75	0.8906	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
386	4.75	4.50	0.8920	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
387	4.50	4.25	0.8934	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
388	4.25	4.00	0.8949	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
389	4.00	3.75	0.8963	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
390	3.75	3.50	0.8977	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
391	3.50	3.25	0.8992	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
392	3.25	3.00	0.9006	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
393	3.00	2.75	0.9020	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
394	2.75	2.50	0.9035	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
395	2.50	2.25	0.9049	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
396	2.25	2.00	0.9063	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
397	2.00	1.75	0.9078	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
398	1.75	1.50	0.9092	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
399	1.50	1.25	0.9106	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
400	1.25	1.00	0.9121	0.025	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.025
401	1.00	0.75	2.2159	0.061	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.061
402	0.75	0.50	2.2177	0.061	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.061
403	0.50	0.25	2.2191	0.061	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.061
404	0.25	0.00	2.2206	0.061	1.16	31.2	9039.	7792.5	36.2	0.	0.000	0.000	0.061

FINAL REPORT ICWW LA-QUAL calibration for Gulf ICWW and Bayou Black
REACH NO. 1 Gulf ICWW FTN Field Survey calibration

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

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

NO.		deg C	ppt		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL	
1	HDWTR	0.25500	31.20	0.00	0.00	0.00	6.70	3.70	0.00	3.70	0.00	1.30	0.10	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.02632	30.90	0.00	0.00	0.00	7.22	6.67	0.00			1.40	0.10	0.00	0.00	0.00	0.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m³	AREA m²	AREA m²	VOLUME m³	PRISM m/s	SURFACE VELO m²/s	X-SECT VELO m/s	TIDAL	TIDAL	DISPRSN	MEAN
1	94.00	93.75	0.28132	0.0	0.00017	17.46	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
2	93.75	93.50	0.30763	0.0	0.00018	15.96	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
3	93.50	93.25	0.33395	0.0	0.00020	14.71	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
4	93.25	93.00	0.36026	0.0	0.00021	13.63	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
5	93.00	92.75	0.38658	0.0	0.00023	12.70	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
6	92.75	92.50	0.41289	0.0	0.00024	11.89	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
7	92.50	92.25	0.43921	0.0	0.00026	11.18	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
8	92.25	92.00	0.46553	0.0	0.00027	10.55	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
9	92.00	91.75	0.49184	0.0	0.00029	9.98	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
10	91.75	91.50	0.51816	0.0	0.00031	9.48	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
11	91.50	91.25	0.54447	0.0	0.00032	9.02	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
12	91.25	91.00	0.57079	0.0	0.00034	8.60	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
13	91.00	90.75	0.59711	0.0	0.00035	8.22	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
14	90.75	90.50	0.62342	0.0	0.00037	7.88	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
15	90.50	90.25	0.64974	0.0	0.00038	7.56	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
16	90.25	90.00	0.67605	0.0	0.00040	7.26	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
17	90.00	89.75	0.70237	0.0	0.00041	6.99	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
18	89.75	89.50	0.72868	0.0	0.00043	6.74	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
19	89.50	89.25	0.75500	0.0	0.00044	6.50	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
20	89.25	89.00	0.78132	0.0	0.00046	6.29	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
21	89.00	88.75	0.80763	0.0	0.00048	6.08	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
22	88.75	88.50	0.83395	0.0	0.00049	5.89	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.000				
23	88.50	88.25	0.86026	0.0	0.00051	5.71	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
24	88.25	88.00	0.88658	0.0	0.00052	5.54	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
25	88.00	87.75	0.91289	0.0	0.00054	5.38	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
26	87.75	87.50	0.93921	0.0	0.00055	5.23	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
27	87.50	87.25	0.96553	0.0	0.00057	5.09	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
28	87.25	87.00	0.99184	0.0	0.00058	4.95	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
29	87.00	86.75	1.01816	0.0	0.00060	4.82	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
30	86.75	86.50	1.04447	0.0	0.00062	4.70	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
31	86.50	86.25	1.07079	0.0	0.00063	4.59	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
32	86.25	86.00	1.09711	0.0	0.00065	4.48	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
33	86.00	85.75	1.12342	0.0	0.00066	4.37	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
34	85.75	85.50	1.14974	0.0	0.00068	4.27	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
35	85.50	85.25	1.17605	0.0	0.00069	4.18	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
36	85.25	85.00	1.20237	0.0	0.00071	4.08	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
37	85.00	84.75	1.22868	0.0	0.00072	4.00	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				
38	84.75	84.50	1.25500	0.0	0.00074	3.91	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.000	0.001				

TOT					289.87				16122990.00			1733655.00												
AVG					0.0004			9.30	182.49			1697.16												
CUM					289.87																			

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

ELEM NO.	ENDING DIST 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 *	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
1	93.750	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
2	93.500	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
3	93.250	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
4	93.000	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
5	92.750	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
6	92.500	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
7	92.250	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
8	92.000	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
9	91.750	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
10	91.500	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
11	91.250	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
12	91.000	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
13	90.750	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
14	90.500	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
15	90.250	7.36	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
16	90.000	7.36	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
17	89.750	7.36	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
18	89.500	7.36	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
19	89.250	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
20	89.000	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
21	88.750	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
22	88.500	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
23	88.250	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
24	88.000	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
25	87.750	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
26	87.500	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
27	87.250	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
28	87.000	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
29	86.750	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
30	86.500	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
31	86.250	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
32	86.000	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
33	85.750	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
34	85.500	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
35	85.250	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
36	85.000	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
37	84.750	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
38	84.500	7.30	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	

AVG 20 DEG C RATE 0.08 0.15 0.00 0.00 0.00 0.00 0.00 1.00 0.02 0.00 0.13 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
1	93.750	31.22	0.00	0.00	0.00	6.32	2.55	0.00	2.55	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
2	93.500	31.24	0.00	0.00	0.00	6.48	2.36	0.00	2.36	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
3	93.250	31.26	0.00	0.00	0.00	6.59	2.32	0.00	2.32	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
4	93.000	31.28	0.00	0.00	0.00	6.64	2.31	0.00	2.31	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
5	92.750	31.31	0.00	0.00	0.00	6.67	2.31	0.00	2.31	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
6	92.500	31.33	0.00	0.00	0.00	6.68	2.31	0.00	2.31	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
7	92.250	31.35	0.00	0.00	0.00	6.69	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
8	92.000	31.37	0.00	0.00	0.00	6.69	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
9	91.750	31.39	0.00	0.00	0.00	6.69	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
10	91.500	31.41	0.00	0.00	0.00	6.70	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
11	91.250	31.43	0.00	0.00	0.00	6.70	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
12	91.000	31.45	0.00	0.00	0.00	6.70	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
13	90.750	31.47	0.00	0.00	0.00	6.70	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
14	90.500	31.49	0.00	0.00	0.00	6.71	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
15	90.250	31.52	0.00	0.00	0.00	6.71	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
16	90.000	31.54	0.00	0.00	0.00	6.71	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
17	89.750	31.56	0.00	0.00	0.00	6.72	2.28	0.00	2.28	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
18	89.500	31.58	0.00	0.00	0.00	6.72	2.28	0.00	2.28	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
19	89.250	31.60	0.00	0.00	0.00	6.72	2.28	0.00	2.28	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
20	89.000	31.62	0.00	0.00	0.00	6.72	2.28	0.00	2.28	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
21	88.750	31.64	0.00	0.00	0.00	6.73	2.27	0.00	2.27	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
22	88.500	31.66	0.00	0.00	0.00	6.73	2.27	0.00	2.27	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
23	88.250	31.68	0.00	0.00	0.00	6.73	2.27	0.00	2.27	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
24	88.000	31.71	0.00	0.00	0.00	6.74	2.27	0.00	2.27	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
25	87.750	31.73	0.00	0.00	0.00	6.74	2.27	0.00	2.27	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
26	87.500	31.75	0.00	0.00	0.00	6.74	2.26	0.00	2.26	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
27	87.250	31.77	0.00	0.00	0.00	6.74	2.26	0.00	2.26	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
28	87.000	31.79	0.00	0.00	0.00	6.75	2.26	0.00	2.26	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
29	86.750	31.81	0.00	0.00	0.00	6.75	2.26	0.00	2.26	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
30	86.500	31.83	0.00	0.00	0.00	6.75	2.25	0.00	2.25	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
31	86.250	31.85	0.00	0.00	0.00	6.75	2.25	0.00	2.25	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
32	86.000	31.87	0.00	0.00	0.00	6.76	2.25	0.00	2.25	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
33	85.750	31.89	0.00	0.00	0.00	6.76	2.25	0.00	2.25	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
34	85.500	31.92	0.00	0.00	0.00	6.76	2.25	0.00	2.25	0.00	1.30	0.12	0.00	1.41	0.00	20.00	0.00	0.	0.00
35	85.250	31.94	0.00	0.00	0.00	6.77	2.24	0.00	2.24	0.00	1.30	0.12	0.00	1.41	0.00	20.00	0.00	0.	0.00
36	85.000	31.96	0.00	0.00	0.00	6.77	2.24	0.00	2.24	0.00	1.30	0.12	0.00	1.41	0.00	20.00	0.00	0.	0.00
37	84.750	31.98	0.00	0.00	0.00	6.77	2.24	0.00	2.24	0.00	1.30	0.12	0.00	1.41	0.00	20.00	0.00	0.	0.00
38	84.500	32.00	0.00	0.00	0.00	6.77	2.24	0.00	2.24	0.00	1.30	0.12	0.00	1.41	0.00	20.00	0.00	0.	0.00

FINAL REPORT ICWW — LA-QUAL calibration for Gulf ICWW and Bayou Black
REACH NO. 2 Gulf ICWW — FTN Field Survey calibration

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS #/100mL	CHL A	COLI	NCM
39	UPR RCH	1.25500	32.00	0.00	0.00	0.00	6.77	2.24	0.00	2.24	0.00	1.30	0.12	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.01644	30.90	0.00	0.00	0.00	7.22	6.67	0.00			1.40	0.10	0.00	0.00	0.00	0.00	
39	WSTLD	47.90509	31.20	0.00	0.00	0.00	4.40	5.00	0.00	5.00	0.00	1.60	0.10	0.00	0.00	0.00	0.00	0.00
57	WSTLD	-36.47580	32.04	0.00	0.00	0.00	3.75	3.52	0.00	3.52	0.00	1.52	0.13	0.00	0.00	20.00	0.00	0.00
89	WSTLD	1.55720	31.20	0.00	0.00	0.00	6.60	6.20	0.00	6.20	0.00	1.40	0.10	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
39	84.50	84.25	49.17653	97.4	0.01762	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
40	84.25	84.00	49.19297	97.4	0.01763	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
41	84.00	83.75	49.20942	97.3	0.01763	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
42	83.75	83.50	49.22586	97.3	0.01764	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
43	83.50	83.25	49.24230	97.3	0.01764	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
44	83.25	83.00	49.25874	97.3	0.01765	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
45	83.00	82.75	49.27518	97.2	0.01766	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
46	82.75	82.50	49.29162	97.2	0.01766	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
47	82.50	82.25	49.30806	97.2	0.01767	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
48	82.25	82.00	49.32450	97.1	0.01767	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
49	82.00	81.75	49.34095	97.1	0.01768	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
50	81.75	81.50	49.35739	97.1	0.01768	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
51	81.50	81.25	49.37383	97.0	0.01769	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
52	81.25	81.00	49.39027	97.0	0.01770	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
53	81.00	80.75	49.40671	97.0	0.01770	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
54	80.75	80.50	49.42315	96.9	0.01771	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
55	80.50	80.25	49.43959	96.9	0.01771	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
56	80.25	80.00	49.45604	96.9	0.01772	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.018
57	80.00	79.75	12.99668	96.8	0.00466	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
58	79.75	79.50	13.01312	96.7	0.00466	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
59	79.50	79.25	13.02956	96.6	0.00467	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
60	79.25	79.00	13.04600	96.5	0.00467	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
61	79.00	78.75	13.06245	96.3	0.00468	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
62	78.75	78.50	13.07889	96.2	0.00469	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
63	78.50	78.25	13.09533	96.1	0.00469	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
64	78.25	78.00	13.11177	96.0	0.00470	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
65	78.00	77.75	13.12822	95.9	0.00470	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005

66	77.75	77.50	13.14466	95.7	0.00471	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
67	77.50	77.25	13.16110	95.6	0.00472	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
68	77.25	77.00	13.17754	95.5	0.00472	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
69	77.00	76.75	13.19398	95.4	0.00473	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
70	76.75	76.50	13.21043	95.3	0.00473	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
71	76.50	76.25	13.22687	95.1	0.00474	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
72	76.25	76.00	13.24331	95.0	0.00475	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
73	76.00	75.75	13.25975	94.9	0.00475	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
74	75.75	75.50	13.27620	94.8	0.00476	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
75	75.50	75.25	13.29264	94.7	0.00476	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
76	75.25	75.00	13.30908	94.6	0.00477	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
77	75.00	74.75	13.32552	94.4	0.00477	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
78	74.75	74.50	13.34197	94.3	0.00478	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
79	74.50	74.25	13.35841	94.2	0.00479	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
80	74.25	74.00	13.37485	94.1	0.00479	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
81	74.00	73.75	13.39129	94.0	0.00480	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
82	73.75	73.50	13.40773	93.9	0.00480	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
83	73.50	73.25	13.42418	93.7	0.00481	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
84	73.25	73.00	13.44062	93.6	0.00482	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
85	73.00	72.75	13.45706	93.5	0.00482	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
86	72.75	72.50	13.47350	93.4	0.00483	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
87	72.50	72.25	13.48995	93.3	0.00483	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
88	72.25	72.00	13.50639	93.2	0.00484	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
89	72.00	71.75	15.08003	93.8	0.00540	0.54	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005
90	71.75	71.50	15.09647	93.7	0.00541	0.53	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.000	0.005

TOT			23.52		36282368.00	2717780.00	
AVG		0.0064		13.35	209.06		2790.95
CUM			313.39				

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	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 SETT *	BKGD SOD 1/da	FULL SOD 1/da	CORR SOD *	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
39	84.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
40	84.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
41	83.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
42	83.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
43	83.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
44	83.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
45	82.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
46	82.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
47	82.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
48	82.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
49	81.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
50	81.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
51	81.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		

52	81.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
53	80.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
54	80.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
55	80.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
56	80.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
57	79.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
58	79.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
59	79.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
60	79.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
61	78.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
62	78.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
63	78.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
64	78.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
65	77.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
66	77.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
67	77.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
68	77.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
69	76.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
70	76.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
71	76.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
72	76.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
73	75.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
74	75.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
75	75.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
76	75.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
77	74.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
78	74.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
79	74.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
80	74.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
81	73.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
82	73.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
83	73.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
84	73.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
85	72.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
86	72.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
87	72.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
88	72.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
89	71.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
90	71.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.05	0.15	0.00	0.00	0.00	0.00	0.00	1.00			0.02	0.00	0.13	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM

39	84.250	32.00	0.00	0.00	0.00	4.39	4.82	0.00	4.82	0.00	1.59	0.10	0.00	1.69	0.00	20.00	0.00	0.	0.00
40	84.000	32.00	0.00	0.00	0.00	4.32	4.72	0.00	4.72	0.00	1.58	0.10	0.00	1.69	0.00	20.00	0.00	0.	0.00
41	83.750	32.01	0.00	0.00	0.00	4.26	4.62	0.00	4.62	0.00	1.58	0.11	0.00	1.69	0.00	20.00	0.00	0.	0.00
42	83.500	32.01	0.00	0.00	0.00	4.20	4.53	0.00	4.53	0.00	1.58	0.11	0.00	1.69	0.00	20.00	0.00	0.	0.00
43	83.250	32.01	0.00	0.00	0.00	4.15	4.44	0.00	4.44	0.00	1.57	0.11	0.00	1.68	0.00	20.00	0.00	0.	0.00
44	83.000	32.01	0.00	0.00	0.00	4.10	4.36	0.00	4.36	0.00	1.57	0.11	0.00	1.68	0.00	20.00	0.00	0.	0.00
45	82.750	32.01	0.00	0.00	0.00	4.06	4.27	0.00	4.27	0.00	1.56	0.11	0.00	1.68	0.00	20.00	0.00	0.	0.00
46	82.500	32.02	0.00	0.00	0.00	4.01	4.19	0.00	4.19	0.00	1.56	0.12	0.00	1.68	0.00	20.00	0.00	0.	0.00
47	82.250	32.02	0.00	0.00	0.00	3.98	4.12	0.00	4.12	0.00	1.56	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00
48	82.000	32.02	0.00	0.00	0.00	3.94	4.05	0.00	4.05	0.00	1.55	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00
49	81.750	32.02	0.00	0.00	0.00	3.91	3.98	0.00	3.98	0.00	1.55	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00
50	81.500	32.02	0.00	0.00	0.00	3.88	3.91	0.00	3.91	0.00	1.55	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00
51	81.250	32.03	0.00	0.00	0.00	3.85	3.85	0.00	3.85	0.00	1.54	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00
52	81.000	32.03	0.00	0.00	0.00	3.83	3.79	0.00	3.79	0.00	1.54	0.12	0.00	1.66	0.00	20.00	0.00	0.	0.00
53	80.750	32.03	0.00	0.00	0.00	3.81	3.73	0.00	3.73	0.00	1.53	0.13	0.00	1.66	0.00	20.00	0.00	0.	0.00
54	80.500	32.03	0.00	0.00	0.00	3.79	3.67	0.00	3.67	0.00	1.53	0.13	0.00	1.66	0.00	20.00	0.00	0.	0.00
55	80.250	32.03	0.00	0.00	0.00	3.77	3.62	0.00	3.62	0.00	1.53	0.13	0.00	1.65	0.00	20.00	0.00	0.	0.00
56	80.000	32.03	0.00	0.00	0.00	3.76	3.56	0.00	3.56	0.00	1.52	0.13	0.00	1.65	0.00	20.00	0.00	0.	0.00
57	79.750	32.04	0.00	0.00	0.00	3.75	3.52	0.00	3.52	0.00	1.52	0.13	0.00	1.65	0.00	20.00	0.00	0.	0.00
58	79.500	32.04	0.00	0.00	0.00	3.72	3.35	0.00	3.35	0.00	1.51	0.13	0.00	1.64	0.00	20.00	0.00	0.	0.00
59	79.250	32.04	0.00	0.00	0.00	3.72	3.21	0.00	3.21	0.00	1.49	0.14	0.00	1.63	0.00	20.00	0.00	0.	0.00
60	79.000	32.04	0.00	0.00	0.00	3.74	3.09	0.00	3.09	0.00	1.48	0.14	0.00	1.62	0.00	20.00	0.00	0.	0.00
61	78.750	32.04	0.00	0.00	0.00	3.77	2.99	0.00	2.99	0.00	1.47	0.14	0.00	1.61	0.00	20.00	0.00	0.	0.00
62	78.500	32.05	0.00	0.00	0.00	3.82	2.90	0.00	2.90	0.00	1.45	0.14	0.00	1.59	0.00	20.00	0.00	0.	0.00
63	78.250	32.05	0.00	0.00	0.00	3.87	2.83	0.00	2.83	0.00	1.44	0.14	0.00	1.58	0.00	20.00	0.00	0.	0.00
64	78.000	32.05	0.00	0.00	0.00	3.93	2.76	0.00	2.76	0.00	1.43	0.14	0.00	1.57	0.00	20.00	0.00	0.	0.00
65	77.750	32.05	0.00	0.00	0.00	3.99	2.70	0.00	2.70	0.00	1.42	0.14	0.00	1.56	0.00	20.00	0.00	0.	0.00
66	77.500	32.05	0.00	0.00	0.00	4.06	2.66	0.00	2.66	0.00	1.41	0.14	0.00	1.55	0.00	20.00	0.00	0.	0.00
67	77.250	32.06	0.00	0.00	0.00	4.14	2.61	0.00	2.61	0.00	1.39	0.14	0.00	1.53	0.00	20.00	0.00	0.	0.00
68	77.000	32.06	0.00	0.00	0.00	4.21	2.58	0.00	2.58	0.00	1.38	0.14	0.00	1.52	0.00	20.00	0.00	0.	0.00
69	76.750	32.06	0.00	0.00	0.00	4.29	2.55	0.00	2.55	0.00	1.37	0.14	0.00	1.51	0.00	20.00	0.00	0.	0.00
70	76.500	32.06	0.00	0.00	0.00	4.37	2.52	0.00	2.52	0.00	1.36	0.14	0.00	1.50	0.00	20.00	0.00	0.	0.00
71	76.250	32.06	0.00	0.00	0.00	4.45	2.50	0.00	2.50	0.00	1.35	0.14	0.00	1.49	0.00	20.00	0.00	0.	0.00
72	76.000	32.07	0.00	0.00	0.00	4.53	2.48	0.00	2.48	0.00	1.34	0.14	0.00	1.47	0.00	20.00	0.00	0.	0.00
73	75.750	32.07	0.00	0.00	0.00	4.60	2.46	0.00	2.46	0.00	1.33	0.13	0.00	1.46	0.00	20.00	0.00	0.	0.00
74	75.500	32.07	0.00	0.00	0.00	4.68	2.45	0.00	2.45	0.00	1.32	0.13	0.00	1.45	0.00	20.00	0.00	0.	0.00
75	75.250	32.07	0.00	0.00	0.00	4.76	2.43	0.00	2.43	0.00	1.31	0.13	0.00	1.44	0.00	20.00	0.00	0.	0.00
76	75.000	32.07	0.00	0.00	0.00	4.84	2.42	0.00	2.42	0.00	1.30	0.13	0.00	1.43	0.00	20.00	0.00	0.	0.00
77	74.750	32.08	0.00	0.00	0.00	4.91	2.41	0.00	2.41	0.00	1.29	0.13	0.00	1.42	0.00	20.00	0.00	0.	0.00
78	74.500	32.08	0.00	0.00	0.00	4.99	2.41	0.00	2.41	0.00	1.28	0.13	0.00	1.41	0.00	20.00	0.00	0.	0.00
79	74.250	32.08	0.00	0.00	0.00	5.06	2.40	0.00	2.40	0.00	1.27	0.13	0.00	1.40	0.00	20.00	0.00	0.	0.00
80	74.000	32.08	0.00	0.00	0.00	5.13	2.39	0.00	2.39	0.00	1.26	0.13	0.00	1.39	0.00	20.00	0.00	0.	0.00
81	73.750	32.08	0.00	0.00	0.00	5.20	2.39	0.00	2.39	0.00	1.25	0.12	0.00	1.38	0.00	20.00	0.00	0.	0.00
82	73.500	32.08	0.00	0.00	0.00	5.27	2.38	0.00	2.38	0.00	1.24	0.12	0.00	1.37	0.00	20.00	0.00	0.	0.00
83	73.250	32.09	0.00	0.00	0.00	5.34	2.38	0.00	2.38	0.00	1.23	0.12	0.00	1.36	0.00	20.00	0.00	0.	0.00
84	73.000	32.09	0.00	0.00	0.00	5.40	2.38	0.00	2.38	0.00	1.23	0.12	0.00	1.35	0.00	20.00	0.00	0.	0.00
85	72.750	32.09	0.00	0.00	0.00	5.47	2.37	0.00	2.37	0.00	1.22	0.12	0.00	1.34	0.00	20.00	0.00	0.	0.00
86	72.500	32.09	0.00	0.00	0.00	5.53	2.37	0.00	2.37	0.00	1.21	0.12	0.00	1.33	0.00	20.00	0.00	0.	0.00
87	72.250	32.09	0.00	0.00	0.00	5.59	2.37	0.00	2.37	0.00	1.20	0.12	0.00	1.32	0.00	20.00	0.00	0.	0.00
88	72.000	32.10	0.00	0.00	0.00	5.65	2.37	0.00	2.37	0.00	1.19	0.12	0.00	1.31	0.00	20.00	0.00	0.	0.00

89	71.750	32.10	0.00	0.00	0.00	5.75	2.71	0.00	2.71	0.00	1.21	0.11	0.00	1.32	0.00	20.00	0.00	0.	0.00
90	71.500	32.10	0.00	0.00	0.00	5.76	2.67	0.00	2.67	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00

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

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS	CHL A #/100mL	COLI	NCM
91	UPR RCH	15.09647	32.10	0.00	0.00	0.00	5.76	2.67	0.00	2.67	0.00	1.20	0.11	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.01645	30.90	0.00	0.00	0.00	7.22	6.67	0.00			1.40	0.10	0.00	0.00	0.00	0.00	
117	WSTLD	15.28886	31.20	0.00	0.00	0.00	6.60	6.20	0.00	6.20	0.00	1.40	0.10	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
91	71.50	71.25	15.11292	93.6	0.00299	0.97	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
92	71.25	71.00	15.12937	93.5	0.00300	0.97	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
93	71.00	70.75	15.14581	93.4	0.00300	0.96	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
94	70.75	70.50	15.16226	93.3	0.00300	0.96	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
95	70.50	70.25	15.17871	93.2	0.00301	0.96	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
96	70.25	70.00	15.19516	93.1	0.00301	0.96	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
97	70.00	69.75	15.21160	93.0	0.00301	0.96	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
98	69.75	69.50	15.22805	92.9	0.00302	0.96	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
99	69.50	69.25	15.24450	92.8	0.00302	0.96	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
100	69.25	69.00	15.26094	92.7	0.00302	0.96	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
101	69.00	68.75	15.27739	92.6	0.00303	0.96	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
102	68.75	68.50	15.29384	92.5	0.00303	0.96	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
103	68.50	68.25	15.31028	92.4	0.00303	0.95	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
104	68.25	68.00	15.32673	92.3	0.00304	0.95	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
105	68.00	67.75	15.34318	92.2	0.00304	0.95	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
106	67.75	67.50	15.35963	92.1	0.00304	0.95	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
107	67.50	67.25	15.37607	92.0	0.00305	0.95	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
108	67.25	67.00	15.39252	91.9	0.00305	0.95	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
109	67.00	66.75	15.40897	91.8	0.00305	0.95	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
110	66.75	66.50	15.42541	91.7	0.00306	0.95	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
111	66.50	66.25	15.44186	91.6	0.00306	0.95	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
112	66.25	66.00	15.45831	91.5	0.00306	0.94	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
113	66.00	65.75	15.47476	91.4	0.00307	0.94	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
114	65.75	65.50	15.49120	91.3	0.00307	0.94	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
115	65.50	65.25	15.50765	91.2	0.00307	0.94	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003
116	65.25	65.00	15.52410	91.1	0.00308	0.94	12.77	395.30	126199	5.25	98825.00	5047.98	0.00	0.000	0.000	0.003

117	65.00	64.75	30.82940	95.5	0.00611	0.47	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.000	0.006
118	64.75	64.50	30.84585	95.4	0.00611	0.47	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.000	0.006
119	64.50	64.25	30.86230	95.4	0.00611	0.47	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.000	0.006
120	64.25	64.00	30.87874	95.3	0.00612	0.47	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.000	0.006
121	64.00	63.75	30.89519	95.3	0.00612	0.47	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.000	0.006
122	63.75	63.50	30.91164	95.2	0.00612	0.47	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.000	0.006
123	63.50	63.25	30.92809	95.2	0.00613	0.47	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.000	0.006
124	63.25	63.00	30.94453	95.1	0.00613	0.47	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.000	0.006
125	63.00	62.75	30.96098	95.1	0.00613	0.47	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.000	0.006
126	62.75	62.50	30.97743	95.0	0.00614	0.47	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.000	0.006
127	62.50	62.25	30.99387	95.0	0.00614	0.47	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.000	0.006
128	62.25	62.00	31.01032	94.9	0.00614	0.47	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.000	0.006
TOT					30.46			47955836.00	3755350.00					
AVG					0.0036		12.77	395.30		5047.98				
CUM					343.85									

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	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 DECAY	NCM SETT
91	71.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
92	71.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
93	70.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
94	70.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
95	70.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
96	70.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
97	69.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
98	69.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
99	69.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
100	69.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
101	68.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
102	68.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
103	68.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
104	68.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
105	67.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
106	67.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
107	67.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
108	67.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
109	66.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
110	66.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
111	66.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
112	66.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
113	65.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
114	65.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
115	65.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
116	65.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00

117	64.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
118	64.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
119	64.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
120	64.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
121	63.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
122	63.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
123	63.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
124	63.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
125	62.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
126	62.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
127	62.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
128	62.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.05 0.15 0.00 0.00 0.00 0.00 0.00 2.00 0.02 0.00 0.13 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
91	71.250	32.11	0.00	0.00	0.00	5.63	2.61	0.00	2.61	0.00	1.19	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
92	71.000	32.11	0.00	0.00	0.00	5.52	2.57	0.00	2.57	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
93	70.750	32.12	0.00	0.00	0.00	5.43	2.54	0.00	2.54	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
94	70.500	32.12	0.00	0.00	0.00	5.35	2.51	0.00	2.51	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
95	70.250	32.13	0.00	0.00	0.00	5.28	2.49	0.00	2.49	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
96	70.000	32.13	0.00	0.00	0.00	5.22	2.47	0.00	2.47	0.00	1.17	0.11	0.00	1.28	0.00	20.00	0.00	0.	0.00
97	69.750	32.14	0.00	0.00	0.00	5.16	2.46	0.00	2.46	0.00	1.17	0.11	0.00	1.28	0.00	20.00	0.00	0.	0.00
98	69.500	32.14	0.00	0.00	0.00	5.12	2.45	0.00	2.45	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
99	69.250	32.15	0.00	0.00	0.00	5.08	2.44	0.00	2.44	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
100	69.000	32.15	0.00	0.00	0.00	5.04	2.43	0.00	2.43	0.00	1.16	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
101	68.750	32.16	0.00	0.00	0.00	5.01	2.43	0.00	2.43	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
102	68.500	32.16	0.00	0.00	0.00	4.98	2.42	0.00	2.42	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
103	68.250	32.17	0.00	0.00	0.00	4.95	2.42	0.00	2.42	0.00	1.14	0.11	0.00	1.25	0.00	20.00	0.00	0.	0.00
104	68.000	32.17	0.00	0.00	0.00	4.93	2.42	0.00	2.42	0.00	1.14	0.11	0.00	1.25	0.00	20.00	0.00	0.	0.00
105	67.750	32.18	0.00	0.00	0.00	4.91	2.41	0.00	2.41	0.00	1.14	0.11	0.00	1.25	0.00	20.00	0.00	0.	0.00
106	67.500	32.18	0.00	0.00	0.00	4.89	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.24	0.00	20.00	0.00	0.	0.00
107	67.250	32.19	0.00	0.00	0.00	4.87	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.24	0.00	20.00	0.00	0.	0.00
108	67.000	32.19	0.00	0.00	0.00	4.86	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.23	0.00	20.00	0.00	0.	0.00
109	66.750	32.20	0.00	0.00	0.00	4.84	2.41	0.00	2.41	0.00	1.12	0.11	0.00	1.23	0.00	20.00	0.00	0.	0.00
110	66.500	32.21	0.00	0.00	0.00	4.83	2.40	0.00	2.40	0.00	1.12	0.11	0.00	1.23	0.00	20.00	0.00	0.	0.00
111	66.250	32.21	0.00	0.00	0.00	4.82	2.40	0.00	2.40	0.00	1.12	0.11	0.00	1.23	0.00	20.00	0.00	0.	0.00
112	66.000	32.22	0.00	0.00	0.00	4.81	2.40	0.00	2.40	0.00	1.12	0.11	0.00	1.22	0.00	20.00	0.00	0.	0.00
113	65.750	32.22	0.00	0.00	0.00	4.80	2.40	0.00	2.40	0.00	1.11	0.11	0.00	1.22	0.00	20.00	0.00	0.	0.00
114	65.500	32.23	0.00	0.00	0.00	4.79	2.40	0.00	2.40	0.00	1.11	0.11	0.00	1.22	0.00	20.00	0.00	0.	0.00
115	65.250	32.23	0.00	0.00	0.00	4.79	2.40	0.00	2.40	0.00	1.11	0.11	0.00	1.21	0.00	20.00	0.00	0.	0.00
116	65.000	32.24	0.00	0.00	0.00	4.78	2.40	0.00	2.40	0.00	1.10	0.11	0.00	1.21	0.00	20.00	0.00	0.	0.00
117	64.750	32.24	0.00	0.00	0.00	5.45	4.07	0.00	4.07	0.00	1.25	0.10	0.00	1.35	0.00	20.00	0.00	0.	0.00

118	64.500	32.25	0.00	0.00	0.00	5.24	3.89	0.00	3.89	0.00	1.24	0.11	0.00	1.35	0.00	20.00	0.00	0.	0.00
119	64.250	32.25	0.00	0.00	0.00	5.06	3.72	0.00	3.72	0.00	1.24	0.11	0.00	1.35	0.00	20.00	0.00	0.	0.00
120	64.000	32.26	0.00	0.00	0.00	4.91	3.57	0.00	3.57	0.00	1.24	0.11	0.00	1.35	0.00	20.00	0.00	0.	0.00
121	63.750	32.26	0.00	0.00	0.00	4.77	3.44	0.00	3.44	0.00	1.24	0.11	0.00	1.34	0.00	20.00	0.00	0.	0.00
122	63.500	32.27	0.00	0.00	0.00	4.66	3.33	0.00	3.33	0.00	1.23	0.11	0.00	1.34	0.00	20.00	0.00	0.	0.00
123	63.250	32.27	0.00	0.00	0.00	4.55	3.22	0.00	3.22	0.00	1.23	0.11	0.00	1.34	0.00	20.00	0.00	0.	0.00
124	63.000	32.28	0.00	0.00	0.00	4.47	3.13	0.00	3.13	0.00	1.23	0.11	0.00	1.34	0.00	20.00	0.00	0.	0.00
125	62.750	32.28	0.00	0.00	0.00	4.39	3.05	0.00	3.05	0.00	1.22	0.11	0.00	1.34	0.00	20.00	0.00	0.	0.00
126	62.500	32.29	0.00	0.00	0.00	4.33	2.97	0.00	2.97	0.00	1.22	0.11	0.00	1.33	0.00	20.00	0.00	0.	0.00
127	62.250	32.29	0.00	0.00	0.00	4.28	2.91	0.00	2.91	0.00	1.22	0.11	0.00	1.33	0.00	20.00	0.00	0.	0.00
128	62.000	32.30	0.00	0.00	0.00	4.23	2.85	0.00	2.85	0.00	1.22	0.11	0.00	1.33	0.00	20.00	0.00	0.	0.00

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

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
129	UPR RCH	31.01032	32.30	0.00	0.00	0.00	4.23	2.85	0.00	2.85	0.00	1.22	0.11	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.01644	30.90	0.00	0.00	0.00	7.22	6.67	0.00		1.40	0.10	0.00	0.00	0.00	0.00		
181	WSTLD	4.47341	31.20	0.00	0.00	0.00	10.40	7.20	0.00	7.20	0.00	1.40	0.10	0.00	0.00	0.00	0.00	0.00
181	WSTLD	-0.52378	32.08	0.00	0.00	0.00	5.17	2.91	0.00	2.91	0.00	1.19	0.11	0.00	0.00	22.21	0.00	0.00
221	WSTLD	-23.81100	31.91	0.00	0.00	0.00	5.29	2.41	0.00	2.41	0.00	1.16	0.11	0.00	0.00	23.88	0.00	0.00
223	WSTLD	0.00003	31.20	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00

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

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

143	58.50	58.25	31.25688	94.2	0.01350	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.013
144	58.25	58.00	31.27332	94.1	0.01350	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
145	58.00	57.75	31.28976	94.1	0.01351	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
146	57.75	57.50	31.30620	94.0	0.01352	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
147	57.50	57.25	31.32263	94.0	0.01352	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
148	57.25	57.00	31.33907	93.9	0.01353	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
149	57.00	56.75	31.35551	93.9	0.01354	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
150	56.75	56.50	31.37195	93.8	0.01355	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
151	56.50	56.25	31.38838	93.8	0.01355	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
152	56.25	56.00	31.40482	93.7	0.01356	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
153	56.00	55.75	31.42126	93.7	0.01357	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
154	55.75	55.50	31.43770	93.6	0.01357	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
155	55.50	55.25	31.45413	93.6	0.01358	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
156	55.25	55.00	31.47057	93.5	0.01359	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
157	55.00	54.75	31.48701	93.5	0.01359	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
158	54.75	54.50	31.50345	93.4	0.01360	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
159	54.50	54.25	31.51988	93.4	0.01361	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
160	54.25	54.00	31.53632	93.3	0.01362	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
161	54.00	53.75	31.55276	93.3	0.01362	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
162	53.75	53.50	31.56920	93.2	0.01363	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
163	53.50	53.25	31.58563	93.2	0.01364	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
164	53.25	53.00	31.60207	93.1	0.01364	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
165	53.00	52.75	31.61851	93.1	0.01365	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
166	52.75	52.50	31.63495	93.0	0.01366	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
167	52.50	52.25	31.65138	93.0	0.01367	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
168	52.25	52.00	31.66782	92.9	0.01367	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
169	52.00	51.75	31.68426	92.9	0.01368	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
170	51.75	51.50	31.70070	92.8	0.01369	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
171	51.50	51.25	31.71713	92.8	0.01369	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
172	51.25	51.00	31.73357	92.7	0.01370	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
173	51.00	50.75	31.75001	92.7	0.01371	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
174	50.75	50.50	31.76645	92.6	0.01372	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
175	50.50	50.25	31.78288	92.6	0.01372	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
176	50.25	50.00	31.79932	92.6	0.01373	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
177	50.00	49.75	31.81576	92.5	0.01374	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
178	49.75	49.50	31.83220	92.5	0.01374	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
179	49.50	49.25	31.84863	92.4	0.01375	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
180	49.25	49.00	31.86507	92.4	0.01376	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.014
181	49.00	48.75	35.83114	93.3	0.01547	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.015
182	48.75	48.50	35.84758	93.2	0.01548	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.015
183	48.50	48.25	35.86401	93.2	0.01548	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.015
184	48.25	48.00	35.88045	93.1	0.01549	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.015
185	48.00	47.75	35.89689	93.1	0.01550	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.015
186	47.75	47.50	35.91333	93.0	0.01551	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
187	47.50	47.25	35.92976	93.0	0.01551	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
188	47.25	47.00	35.94620	93.0	0.01552	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
189	47.00	46.75	35.96264	92.9	0.01553	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
190	46.75	46.50	35.97908	92.9	0.01553	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
191	46.50	46.25	35.99551	92.8	0.01554	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
192	46.25	46.00	36.01195	92.8	0.01555	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016

193	46.00	45.75	36.02839	92.7	0.01556	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
194	45.75	45.50	36.04483	92.7	0.01556	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
195	45.50	45.25	36.06126	92.7	0.01557	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
196	45.25	45.00	36.07770	92.6	0.01558	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
197	45.00	44.75	36.09414	92.6	0.01558	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
198	44.75	44.50	36.11058	92.5	0.01559	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
199	44.50	44.25	36.12701	92.5	0.01560	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
200	44.25	44.00	36.14345	92.5	0.01561	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
201	44.00	43.75	36.15989	92.4	0.01561	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
202	43.75	43.50	36.17633	92.4	0.01562	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
203	43.50	43.25	36.19276	92.3	0.01563	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
204	43.25	43.00	36.20920	92.3	0.01563	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
205	43.00	42.75	36.22564	92.2	0.01564	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
206	42.75	42.50	36.24208	92.2	0.01565	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
207	42.50	42.25	36.25851	92.2	0.01565	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
208	42.25	42.00	36.27495	92.1	0.01566	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
209	42.00	41.75	36.29139	92.1	0.01567	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
210	41.75	41.50	36.30783	92.0	0.01568	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
211	41.50	41.25	36.32426	92.0	0.01568	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
212	41.25	41.00	36.34070	92.0	0.01569	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
213	41.00	40.75	36.35714	91.9	0.01570	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
214	40.75	40.50	36.37358	91.9	0.01570	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
215	40.50	40.25	36.39001	91.8	0.01571	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
216	40.25	40.00	36.40645	91.8	0.01572	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
217	40.00	39.75	36.42289	91.7	0.01573	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
218	39.75	39.50	36.43933	91.7	0.01573	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
219	39.50	39.25	36.45576	91.7	0.01574	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
220	39.25	39.00	36.47220	91.6	0.01575	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.016
221	39.00	38.75	12.67764	91.6	0.00547	0.53	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.005
222	38.75	38.50	12.69408	91.5	0.00548	0.53	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.005
223	38.50	38.25	12.71054	91.3	0.00549	0.53	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.005
224	38.25	38.00	12.72698	91.2	0.00550	0.53	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.000	0.005

TOT					20.61				55586332.00	4560000.00					
AVG				0.0135			12.19	190.00			2316.10				
CUM					364.46										

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

ELEM NO.	ENDING DIST 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 **	SRCE **	NH3 RATE 1/da	NH3 SRCE 1/da	DENIT PROD *	PO4 PROD **	ALG DECAY 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM	NCM SETT
129	61.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00		
130	61.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00		
131	61.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00		
132	61.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00		
133	60.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00		
134	60.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00		

135	60.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
136	60.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
137	59.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
138	59.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
139	59.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
140	59.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
141	58.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
142	58.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
143	58.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
144	58.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
145	57.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
146	57.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
147	57.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
148	57.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
149	56.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
150	56.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
151	56.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
152	56.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
153	55.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
154	55.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
155	55.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
156	55.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
157	54.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
158	54.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
159	54.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
160	54.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
161	53.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
162	53.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
163	53.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
164	53.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
165	52.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
166	52.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
167	52.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
168	52.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
169	51.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
170	51.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
171	51.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
172	51.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
173	50.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
174	50.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
175	50.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
176	50.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
177	49.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
178	49.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
179	49.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
180	49.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
181	48.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
182	48.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
183	48.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
184	48.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00

185	47.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
186	47.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
187	47.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
188	47.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
189	46.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
190	46.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
191	46.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
192	46.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
193	45.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
194	45.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
195	45.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
196	45.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
197	44.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
198	44.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
199	44.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
200	44.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
201	43.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
202	43.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
203	43.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
204	43.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
205	42.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
206	42.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
207	42.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
208	42.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
209	41.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
210	41.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
211	41.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
212	41.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
213	40.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
214	40.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
215	40.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
216	40.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
217	39.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
218	39.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
219	39.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
220	39.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
221	38.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
222	38.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
223	38.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
224	38.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.06 0.15 0.00 0.00 0.00 0.00 0.00 2.20 0.02 0.00 0.13 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM

129	61.750	32.30	0.00	0.00	0.00	4.21	2.82	0.00	2.82	0.00	1.21	0.11	0.00	1.33	0.00	20.04	0.00	0.	0.00
130	61.500	32.29	0.00	0.00	0.00	4.18	2.79	0.00	2.79	0.00	1.21	0.11	0.00	1.33	0.00	20.08	0.00	0.	0.00
131	61.250	32.29	0.00	0.00	0.00	4.16	2.76	0.00	2.76	0.00	1.21	0.11	0.00	1.33	0.00	20.12	0.00	0.	0.00
132	61.000	32.28	0.00	0.00	0.00	4.14	2.74	0.00	2.74	0.00	1.21	0.11	0.00	1.33	0.00	20.17	0.00	0.	0.00
133	60.750	32.28	0.00	0.00	0.00	4.12	2.72	0.00	2.72	0.00	1.21	0.11	0.00	1.33	0.00	20.21	0.00	0.	0.00
134	60.500	32.27	0.00	0.00	0.00	4.11	2.69	0.00	2.69	0.00	1.21	0.12	0.00	1.32	0.00	20.25	0.00	0.	0.00
135	60.250	32.27	0.00	0.00	0.00	4.10	2.67	0.00	2.67	0.00	1.21	0.12	0.00	1.32	0.00	20.29	0.00	0.	0.00
136	60.000	32.27	0.00	0.00	0.00	4.08	2.65	0.00	2.65	0.00	1.21	0.12	0.00	1.32	0.00	20.33	0.00	0.	0.00
137	59.750	32.26	0.00	0.00	0.00	4.07	2.63	0.00	2.63	0.00	1.21	0.12	0.00	1.32	0.00	20.38	0.00	0.	0.00
138	59.500	32.26	0.00	0.00	0.00	4.07	2.61	0.00	2.61	0.00	1.20	0.12	0.00	1.32	0.00	20.42	0.00	0.	0.00
139	59.250	32.25	0.00	0.00	0.00	4.06	2.60	0.00	2.60	0.00	1.20	0.12	0.00	1.32	0.00	20.46	0.00	0.	0.00
140	59.000	32.25	0.00	0.00	0.00	4.05	2.58	0.00	2.58	0.00	1.20	0.12	0.00	1.32	0.00	20.50	0.00	0.	0.00
141	58.750	32.25	0.00	0.00	0.00	4.05	2.56	0.00	2.56	0.00	1.20	0.12	0.00	1.32	0.00	20.54	0.00	0.	0.00
142	58.500	32.24	0.00	0.00	0.00	4.05	2.55	0.00	2.55	0.00	1.20	0.12	0.00	1.32	0.00	20.58	0.00	0.	0.00
143	58.250	32.24	0.00	0.00	0.00	4.05	2.54	0.00	2.54	0.00	1.20	0.12	0.00	1.32	0.00	20.62	0.00	0.	0.00
144	58.000	32.23	0.00	0.00	0.00	4.05	2.52	0.00	2.52	0.00	1.20	0.12	0.00	1.31	0.00	20.67	0.00	0.	0.00
145	57.750	32.23	0.00	0.00	0.00	4.05	2.51	0.00	2.51	0.00	1.20	0.12	0.00	1.31	0.00	20.71	0.00	0.	0.00
146	57.500	32.22	0.00	0.00	0.00	4.05	2.50	0.00	2.50	0.00	1.20	0.12	0.00	1.31	0.00	20.75	0.00	0.	0.00
147	57.250	32.22	0.00	0.00	0.00	4.05	2.49	0.00	2.49	0.00	1.20	0.12	0.00	1.31	0.00	20.79	0.00	0.	0.00
148	57.000	32.22	0.00	0.00	0.00	4.05	2.48	0.00	2.48	0.00	1.19	0.12	0.00	1.31	0.00	20.83	0.00	0.	0.00
149	56.750	32.21	0.00	0.00	0.00	4.06	2.47	0.00	2.47	0.00	1.19	0.12	0.00	1.31	0.00	20.88	0.00	0.	0.00
150	56.500	32.21	0.00	0.00	0.00	4.06	2.46	0.00	2.46	0.00	1.19	0.12	0.00	1.31	0.00	20.92	0.00	0.	0.00
151	56.250	32.20	0.00	0.00	0.00	4.07	2.45	0.00	2.45	0.00	1.19	0.12	0.00	1.31	0.00	20.96	0.00	0.	0.00
152	56.000	32.20	0.00	0.00	0.00	4.08	2.44	0.00	2.44	0.00	1.19	0.12	0.00	1.31	0.00	21.00	0.00	0.	0.00
153	55.750	32.20	0.00	0.00	0.00	4.08	2.44	0.00	2.44	0.00	1.19	0.12	0.00	1.31	0.00	21.04	0.00	0.	0.00
154	55.500	32.19	0.00	0.00	0.00	4.09	2.43	0.00	2.43	0.00	1.19	0.12	0.00	1.31	0.00	21.08	0.00	0.	0.00
155	55.250	32.19	0.00	0.00	0.00	4.10	2.42	0.00	2.42	0.00	1.19	0.12	0.00	1.30	0.00	21.12	0.00	0.	0.00
156	55.000	32.18	0.00	0.00	0.00	4.11	2.42	0.00	2.42	0.00	1.19	0.12	0.00	1.30	0.00	21.17	0.00	0.	0.00
157	54.750	32.18	0.00	0.00	0.00	4.12	2.41	0.00	2.41	0.00	1.19	0.12	0.00	1.30	0.00	21.21	0.00	0.	0.00
158	54.500	32.17	0.00	0.00	0.00	4.13	2.40	0.00	2.40	0.00	1.18	0.12	0.00	1.30	0.00	21.25	0.00	0.	0.00
159	54.250	32.17	0.00	0.00	0.00	4.14	2.40	0.00	2.40	0.00	1.18	0.12	0.00	1.30	0.00	21.29	0.00	0.	0.00
160	54.000	32.17	0.00	0.00	0.00	4.15	2.39	0.00	2.39	0.00	1.18	0.12	0.00	1.30	0.00	21.33	0.00	0.	0.00
161	53.750	32.16	0.00	0.00	0.00	4.17	2.39	0.00	2.39	0.00	1.18	0.12	0.00	1.30	0.00	21.38	0.00	0.	0.00
162	53.500	32.16	0.00	0.00	0.00	4.18	2.38	0.00	2.38	0.00	1.18	0.12	0.00	1.30	0.00	21.42	0.00	0.	0.00
163	53.250	32.15	0.00	0.00	0.00	4.19	2.38	0.00	2.38	0.00	1.18	0.12	0.00	1.30	0.00	21.46	0.00	0.	0.00
164	53.000	32.15	0.00	0.00	0.00	4.21	2.38	0.00	2.38	0.00	1.18	0.12	0.00	1.30	0.00	21.50	0.00	0.	0.00
165	52.750	32.15	0.00	0.00	0.00	4.22	2.37	0.00	2.37	0.00	1.18	0.12	0.00	1.29	0.00	21.54	0.00	0.	0.00
166	52.500	32.14	0.00	0.00	0.00	4.23	2.37	0.00	2.37	0.00	1.18	0.12	0.00	1.29	0.00	21.58	0.00	0.	0.00
167	52.250	32.14	0.00	0.00	0.00	4.25	2.37	0.00	2.37	0.00	1.18	0.12	0.00	1.29	0.00	21.62	0.00	0.	0.00
168	52.000	32.13	0.00	0.00	0.00	4.26	2.36	0.00	2.36	0.00	1.18	0.12	0.00	1.29	0.00	21.67	0.00	0.	0.00
169	51.750	32.13	0.00	0.00	0.00	4.28	2.36	0.00	2.36	0.00	1.17	0.12	0.00	1.29	0.00	21.71	0.00	0.	0.00
170	51.500	32.12	0.00	0.00	0.00	4.29	2.36	0.00	2.36	0.00	1.17	0.12	0.00	1.29	0.00	21.75	0.00	0.	0.00
171	51.250	32.12	0.00	0.00	0.00	4.31	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.79	0.00	0.	0.00
172	51.000	32.12	0.00	0.00	0.00	4.33	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.83	0.00	0.	0.00
173	50.750	32.11	0.00	0.00	0.00	4.34	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.88	0.00	0.	0.00
174	50.500	32.11	0.00	0.00	0.00	4.36	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.92	0.00	0.	0.00
175	50.250	32.10	0.00	0.00	0.00	4.38	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.96	0.00	0.	0.00
176	50.000	32.10	0.00	0.00	0.00	4.39	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.00	0.00	0.	0.00
177	49.750	32.10	0.00	0.00	0.00	4.41	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.04	0.00	0.	0.00

178	49.500	32.09	0.00	0.00	0.00	4.43	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.08	0.00	0.	0.00
179	49.250	32.09	0.00	0.00	0.00	4.45	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.12	0.00	0.	0.00
180	49.000	32.08	0.00	0.00	0.00	4.46	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.17	0.00	0.	0.00
181	48.750	32.08	0.00	0.00	0.00	5.17	2.91	0.00	2.91	0.00	1.19	0.11	0.00	1.31	0.00	22.21	0.00	0.	0.00
182	48.500	32.08	0.00	0.00	0.00	5.15	2.88	0.00	2.88	0.00	1.19	0.11	0.00	1.31	0.00	22.25	0.00	0.	0.00
183	48.250	32.07	0.00	0.00	0.00	5.14	2.85	0.00	2.85	0.00	1.19	0.11	0.00	1.30	0.00	22.29	0.00	0.	0.00
184	48.000	32.07	0.00	0.00	0.00	5.12	2.83	0.00	2.83	0.00	1.19	0.11	0.00	1.30	0.00	22.33	0.00	0.	0.00
185	47.750	32.06	0.00	0.00	0.00	5.11	2.80	0.00	2.80	0.00	1.19	0.11	0.00	1.30	0.00	22.38	0.00	0.	0.00
186	47.500	32.06	0.00	0.00	0.00	5.09	2.78	0.00	2.78	0.00	1.19	0.11	0.00	1.30	0.00	22.42	0.00	0.	0.00
187	47.250	32.05	0.00	0.00	0.00	5.08	2.76	0.00	2.76	0.00	1.19	0.11	0.00	1.30	0.00	22.46	0.00	0.	0.00
188	47.000	32.05	0.00	0.00	0.00	5.07	2.74	0.00	2.74	0.00	1.19	0.11	0.00	1.30	0.00	22.50	0.00	0.	0.00
189	46.750	32.05	0.00	0.00	0.00	5.07	2.72	0.00	2.72	0.00	1.19	0.11	0.00	1.30	0.00	22.54	0.00	0.	0.00
190	46.500	32.04	0.00	0.00	0.00	5.06	2.70	0.00	2.70	0.00	1.19	0.11	0.00	1.30	0.00	22.58	0.00	0.	0.00
191	46.250	32.04	0.00	0.00	0.00	5.05	2.68	0.00	2.68	0.00	1.19	0.11	0.00	1.30	0.00	22.62	0.00	0.	0.00
192	46.000	32.03	0.00	0.00	0.00	5.05	2.67	0.00	2.67	0.00	1.18	0.11	0.00	1.30	0.00	22.67	0.00	0.	0.00
193	45.750	32.03	0.00	0.00	0.00	5.05	2.65	0.00	2.65	0.00	1.18	0.11	0.00	1.30	0.00	22.71	0.00	0.	0.00
194	45.500	32.02	0.00	0.00	0.00	5.05	2.63	0.00	2.63	0.00	1.18	0.11	0.00	1.30	0.00	22.75	0.00	0.	0.00
195	45.250	32.02	0.00	0.00	0.00	5.05	2.62	0.00	2.62	0.00	1.18	0.11	0.00	1.29	0.00	22.79	0.00	0.	0.00
196	45.000	32.02	0.00	0.00	0.00	5.05	2.60	0.00	2.60	0.00	1.18	0.11	0.00	1.29	0.00	22.83	0.00	0.	0.00
197	44.750	32.01	0.00	0.00	0.00	5.05	2.59	0.00	2.59	0.00	1.18	0.11	0.00	1.29	0.00	22.88	0.00	0.	0.00
198	44.500	32.01	0.00	0.00	0.00	5.05	2.58	0.00	2.58	0.00	1.18	0.11	0.00	1.29	0.00	22.92	0.00	0.	0.00
199	44.250	32.00	0.00	0.00	0.00	5.06	2.57	0.00	2.57	0.00	1.18	0.11	0.00	1.29	0.00	22.96	0.00	0.	0.00
200	44.000	32.00	0.00	0.00	0.00	5.06	2.56	0.00	2.56	0.00	1.18	0.11	0.00	1.29	0.00	23.00	0.00	0.	0.00
201	43.750	32.00	0.00	0.00	0.00	5.07	2.54	0.00	2.54	0.00	1.18	0.11	0.00	1.29	0.00	23.04	0.00	0.	0.00
202	43.500	31.99	0.00	0.00	0.00	5.07	2.53	0.00	2.53	0.00	1.18	0.11	0.00	1.29	0.00	23.08	0.00	0.	0.00
203	43.250	31.99	0.00	0.00	0.00	5.08	2.52	0.00	2.52	0.00	1.18	0.11	0.00	1.29	0.00	23.12	0.00	0.	0.00
204	43.000	31.98	0.00	0.00	0.00	5.09	2.52	0.00	2.52	0.00	1.17	0.11	0.00	1.29	0.00	23.17	0.00	0.	0.00
205	42.750	31.98	0.00	0.00	0.00	5.09	2.51	0.00	2.51	0.00	1.17	0.11	0.00	1.29	0.00	23.21	0.00	0.	0.00
206	42.500	31.98	0.00	0.00	0.00	5.10	2.50	0.00	2.50	0.00	1.17	0.11	0.00	1.29	0.00	23.25	0.00	0.	0.00
207	42.250	31.97	0.00	0.00	0.00	5.11	2.49	0.00	2.49	0.00	1.17	0.11	0.00	1.28	0.00	23.29	0.00	0.	0.00
208	42.000	31.97	0.00	0.00	0.00	5.12	2.48	0.00	2.48	0.00	1.17	0.11	0.00	1.28	0.00	23.33	0.00	0.	0.00
209	41.750	31.96	0.00	0.00	0.00	5.13	2.48	0.00	2.48	0.00	1.17	0.11	0.00	1.28	0.00	23.38	0.00	0.	0.00
210	41.500	31.96	0.00	0.00	0.00	5.14	2.47	0.00	2.47	0.00	1.17	0.11	0.00	1.28	0.00	23.42	0.00	0.	0.00
211	41.250	31.95	0.00	0.00	0.00	5.16	2.46	0.00	2.46	0.00	1.17	0.11	0.00	1.28	0.00	23.46	0.00	0.	0.00
212	41.000	31.95	0.00	0.00	0.00	5.17	2.46	0.00	2.46	0.00	1.17	0.11	0.00	1.28	0.00	23.50	0.00	0.	0.00
213	40.750	31.95	0.00	0.00	0.00	5.18	2.45	0.00	2.45	0.00	1.17	0.11	0.00	1.28	0.00	23.54	0.00	0.	0.00
214	40.500	31.94	0.00	0.00	0.00	5.19	2.44	0.00	2.44	0.00	1.17	0.11	0.00	1.28	0.00	23.58	0.00	0.	0.00
215	40.250	31.94	0.00	0.00	0.00	5.21	2.44	0.00	2.44	0.00	1.17	0.11	0.00	1.28	0.00	23.62	0.00	0.	0.00
216	40.000	31.93	0.00	0.00	0.00	5.22	2.43	0.00	2.43	0.00	1.17	0.11	0.00	1.28	0.00	23.67	0.00	0.	0.00
217	39.750	31.93	0.00	0.00	0.00	5.23	2.43	0.00	2.43	0.00	1.17	0.11	0.00	1.28	0.00	23.71	0.00	0.	0.00
218	39.500	31.92	0.00	0.00	0.00	5.25	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.28	0.00	23.75	0.00	0.	0.00
219	39.250	31.92	0.00	0.00	0.00	5.26	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.28	0.00	23.79	0.00	0.	0.00
220	39.000	31.92	0.00	0.00	0.00	5.28	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.27	0.00	23.83	0.00	0.	0.00
221	38.750	31.91	0.00	0.00	0.00	5.29	2.41	0.00	2.41	0.00	1.16	0.11	0.00	1.27	0.00	23.88	0.00	0.	0.00
222	38.500	31.91	0.00	0.00	0.00	5.34	2.40	0.00	2.40	0.00	1.16	0.11	0.00	1.27	0.00	23.92	0.00	0.	0.00
223	38.250	31.90	0.00	0.00	0.00	5.39	2.39	0.00	2.39	0.00	1.16	0.11	0.00	1.27	0.00	23.96	0.00	0.	0.00
224	38.000	31.90	0.00	0.00	0.00	5.43	2.39	0.00	2.39	0.00	1.16	0.11	0.00	1.27	0.00	24.00	0.00	0.	0.00

REACH NO. 8 Gulf ICWW FTN Field Survey calibration

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS #/100mL	CHL A	COLI	NCM
405	UPR RCH	12.72698	31.90	0.00	0.00	0.00	5.43	2.39	0.00	2.39	0.00	1.16	0.11	0.00	0.00	24.00	0.00	0.00
405	TRIB	2.22057	31.90	0.00	0.00	0.00	3.02	7.04	0.00	7.04	0.00	1.44	0.12	0.00	0.00	24.00	0.00	0.00
EACH	INCR	0.02142	32.10	0.00	0.00	0.00	7.22	6.67	0.00			1.40	0.10	0.00	0.00	0.00	0.00	
413	WSTLD	1.41564	31.20	0.00	0.00	0.00	2.30	9.40	0.00	9.40	0.00	1.63	0.14	0.00	0.00	0.00	0.00	0.00
413	WSTLD	-0.96263	31.90	0.00	0.00	0.00	4.86	3.99	0.00	3.99	0.00	1.23	0.11	0.00	0.00	24.00	0.00	0.00
417	WSTLD	0.00001	31.20	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
461	WSTLD	0.00005	31.20	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
467	WSTLD	0.00344	31.20	0.00	0.00	0.00	5.00	30.80	0.00	30.80	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
469	WSTLD	4.16197	31.20	0.00	0.00	0.00	3.89	9.80	0.00	9.80	0.00	1.34	0.10	0.00	0.00	0.00	0.00	0.00
469	WSTLD	-0.53794	31.90	0.00	0.00	0.00	3.79	4.97	0.00	4.97	0.00	1.20	0.12	0.00	0.00	24.00	0.00	0.00
493	WSTLD	0.45300	31.20	0.00	0.00	0.00	3.34	8.70	0.00	8.70	0.00	0.90	0.10	0.00	0.00	0.00	0.00	0.00
525	WSTLD	1.21745	31.20	0.00	0.00	0.00	3.34	8.70	0.00	8.70	0.00	0.90	0.10	0.00	0.00	0.00	0.00	0.00
541	WSTLD	-0.39638	31.90	0.00	0.00	0.00	3.13	3.96	0.00	3.96	0.00	1.14	0.12	0.00	0.00	24.00	0.00	0.00
549	WSTLD	0.00004	31.20	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
405	38.00	37.75	14.96897	89.9	0.00751	0.39	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
406	37.75	37.50	14.99039	89.7	0.00752	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
407	37.50	37.25	15.01182	89.6	0.00753	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
408	37.25	37.00	15.03324	89.5	0.00754	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
409	37.00	36.75	15.05466	89.4	0.00755	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
410	36.75	36.50	15.07608	89.2	0.00756	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
411	36.50	36.25	15.09750	89.1	0.00757	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
412	36.25	36.00	15.11892	89.0	0.00758	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
413	36.00	35.75	15.59335	89.8	0.00782	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
414	35.75	35.50	15.61478	89.7	0.00783	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
415	35.50	35.25	15.63620	89.6	0.00784	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
416	35.25	35.00	15.65762	89.4	0.00785	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
417	35.00	34.75	15.67905	89.3	0.00786	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
418	34.75	34.50	15.70047	89.2	0.00787	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
419	34.50	34.25	15.72189	89.1	0.00788	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
420	34.25	34.00	15.74331	88.9	0.00789	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
421	34.00	33.75	15.76474	88.8	0.00791	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
422	33.75	33.50	15.78616	88.7	0.00792	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
423	33.50	33.25	15.80758	88.6	0.00793	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
424	33.25	33.00	15.82900	88.5	0.00794	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008

425	33.00	32.75	15.85042	88.3	0.00795	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
426	32.75	32.50	15.87184	88.2	0.00796	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
427	32.50	32.25	15.89326	88.1	0.00797	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
428	32.25	32.00	15.91469	88.0	0.00798	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
429	32.00	31.75	15.93611	87.9	0.00799	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
430	31.75	31.50	15.95753	87.8	0.00800	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
431	31.50	31.25	15.97895	87.6	0.00801	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
432	31.25	31.00	16.00037	87.5	0.00802	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
433	31.00	30.75	16.02179	87.4	0.00803	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
434	30.75	30.50	16.04321	87.3	0.00804	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
435	30.50	30.25	16.06463	87.2	0.00806	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
436	30.25	30.00	16.08606	87.0	0.00807	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
437	30.00	29.75	16.10748	86.9	0.00808	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
438	29.75	29.50	16.12890	86.8	0.00809	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
439	29.50	29.25	16.15032	86.7	0.00810	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
440	29.25	29.00	16.17174	86.6	0.00811	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
441	29.00	28.75	16.19316	86.5	0.00812	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
442	28.75	28.50	16.21458	86.4	0.00813	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
443	28.50	28.25	16.23601	86.2	0.00814	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
444	28.25	28.00	16.25743	86.1	0.00815	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
445	28.00	27.75	16.27885	86.0	0.00816	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
446	27.75	27.50	16.30027	85.9	0.00817	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
447	27.50	27.25	16.32169	85.8	0.00818	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
448	27.25	27.00	16.34311	85.7	0.00820	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
449	27.00	26.75	16.36453	85.6	0.00821	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
450	26.75	26.50	16.38596	85.5	0.00822	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
451	26.50	26.25	16.40738	85.3	0.00823	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
452	26.25	26.00	16.42880	85.2	0.00824	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
453	26.00	25.75	16.45022	85.1	0.00825	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
454	25.75	25.50	16.47164	85.0	0.00826	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
455	25.50	25.25	16.49306	84.9	0.00827	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
456	25.25	25.00	16.51448	84.8	0.00828	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
457	25.00	24.75	16.53591	84.7	0.00829	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
458	24.75	24.50	16.55733	84.6	0.00830	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
459	24.50	24.25	16.57875	84.5	0.00831	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
460	24.25	24.00	16.60017	84.4	0.00832	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
461	24.00	23.75	16.62164	84.2	0.00833	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
462	23.75	23.50	16.64306	84.1	0.00835	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
463	23.50	23.25	16.66448	84.0	0.00836	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
464	23.25	23.00	16.68591	83.9	0.00837	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
465	23.00	22.75	16.70733	83.8	0.00838	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
466	22.75	22.50	16.72875	83.7	0.00839	0.34	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
467	22.50	22.25	16.75361	83.6	0.00840	0.34	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
468	22.25	22.00	16.77503	83.5	0.00841	0.34	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.008
469	22.00	21.75	20.42048	86.7	0.01024	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
470	21.75	21.50	20.44190	86.6	0.01025	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
471	21.50	21.25	20.46333	86.5	0.01026	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
472	21.25	21.00	20.48475	86.4	0.01027	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
473	21.00	20.75	20.50617	86.3	0.01028	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
474	20.75	20.50	20.52759	86.2	0.01029	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010

475	20.50	20.25	20.54901	86.1	0.01030	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
476	20.25	20.00	20.57043	86.1	0.01031	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
477	20.00	19.75	20.59185	86.0	0.01033	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
478	19.75	19.50	20.61328	85.9	0.01034	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
479	19.50	19.25	20.63470	85.8	0.01035	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
480	19.25	19.00	20.65612	85.7	0.01036	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
481	19.00	18.75	20.67754	85.6	0.01037	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
482	18.75	18.50	20.69896	85.5	0.01038	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
483	18.50	18.25	20.72038	85.4	0.01039	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
484	18.25	18.00	20.74180	85.3	0.01040	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
485	18.00	17.75	20.76323	85.3	0.01041	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
486	17.75	17.50	20.78465	85.2	0.01042	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
487	17.50	17.25	20.80607	85.1	0.01043	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
488	17.25	17.00	20.82749	85.0	0.01044	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
489	17.00	16.75	20.84891	84.9	0.01045	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
490	16.75	16.50	20.87033	84.8	0.01047	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
491	16.50	16.25	20.89175	84.7	0.01048	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
492	16.25	16.00	20.91318	84.6	0.01049	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.010
493	16.00	15.75	21.38760	84.9	0.01072	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
494	15.75	15.50	21.40902	84.8	0.01074	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
495	15.50	15.25	21.43044	84.7	0.01075	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
496	15.25	15.00	21.45186	84.6	0.01076	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
497	15.00	14.75	21.47328	84.5	0.01077	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
498	14.75	14.50	21.49470	84.5	0.01078	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
499	14.50	14.25	21.51612	84.4	0.01079	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
500	14.25	14.00	21.53755	84.3	0.01080	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
501	14.00	13.75	21.55897	84.2	0.01081	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
502	13.75	13.50	21.58039	84.1	0.01082	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
503	13.50	13.25	21.60181	84.0	0.01083	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
504	13.25	13.00	21.62323	84.0	0.01084	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
505	13.00	12.75	21.64465	83.9	0.01085	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
506	12.75	12.50	21.66607	83.8	0.01086	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
507	12.50	12.25	21.68750	83.7	0.01088	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
508	12.25	12.00	21.70892	83.6	0.01089	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
509	12.00	11.75	21.73034	83.5	0.01090	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
510	11.75	11.50	21.75176	83.5	0.01091	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
511	11.50	11.25	21.77318	83.4	0.01092	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
512	11.25	11.00	21.79460	83.3	0.01093	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
513	11.00	10.75	21.81602	83.2	0.01094	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
514	10.75	10.50	21.83745	83.1	0.01095	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
515	10.50	10.25	21.85887	83.1	0.01096	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
516	10.25	10.00	21.88029	83.0	0.01097	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
517	10.00	9.75	21.90171	82.9	0.01098	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
518	9.75	9.50	21.92313	82.8	0.01099	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
519	9.50	9.25	21.94455	82.7	0.01100	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
520	9.25	9.00	21.96597	82.7	0.01101	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
521	9.00	8.75	21.98740	82.6	0.01103	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
522	8.75	8.50	22.00882	82.5	0.01104	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
523	8.50	8.25	22.03024	82.4	0.01105	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011
524	8.25	8.00	22.05166	82.3	0.01106	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.011

525	8.00	7.75	23.29053	83.2	0.01168	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
526	7.75	7.50	23.31195	83.1	0.01169	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
527	7.50	7.25	23.33337	83.0	0.01170	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
528	7.25	7.00	23.35480	82.9	0.01171	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
529	7.00	6.75	23.37622	82.9	0.01172	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
530	6.75	6.50	23.39764	82.8	0.01173	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
531	6.50	6.25	23.41906	82.7	0.01174	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
532	6.25	6.00	23.44048	82.6	0.01175	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
533	6.00	5.75	23.46190	82.6	0.01176	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
534	5.75	5.50	23.48332	82.5	0.01178	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
535	5.50	5.25	23.50475	82.4	0.01179	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
536	5.25	5.00	23.52617	82.3	0.01180	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
537	5.00	4.75	23.54759	82.3	0.01181	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
538	4.75	4.50	23.56901	82.2	0.01182	0.24	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
539	4.50	4.25	23.59043	82.1	0.01183	0.24	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
540	4.25	4.00	23.61185	82.0	0.01184	0.24	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
541	4.00	3.75	23.23689	82.0	0.01165	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
542	3.75	3.50	23.25832	81.9	0.01166	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
543	3.50	3.25	23.27974	81.8	0.01167	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
544	3.25	3.00	23.30116	81.7	0.01168	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
545	3.00	2.75	23.32258	81.7	0.01169	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
546	2.75	2.50	23.34400	81.6	0.01171	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
547	2.50	2.25	23.36542	81.5	0.01172	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
548	2.25	2.00	23.38684	81.4	0.01173	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
549	2.00	1.75	23.40831	81.4	0.01174	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
550	1.75	1.50	23.42973	81.3	0.01175	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
551	1.50	1.25	23.45115	81.2	0.01176	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
552	1.25	1.00	23.47257	81.1	0.01177	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
553	1.00	0.75	23.49399	81.1	0.01178	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
554	0.75	0.50	23.51541	81.0	0.01179	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
555	0.50	0.25	23.53683	80.9	0.01180	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
556	0.25	0.00	23.55826	80.9	0.01181	0.24	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.000	0.012
TOT					46.13				75781128.00	5920400.00					
AVG					0.0095		12.80	155.80			1994.24				
CUM					410.60										

********** 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 **	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
405	37.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00		
406	37.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00		
407	37.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00		
408	37.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00		
409	36.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00		
410	36.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00		

411	36.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
412	36.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
413	35.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
414	35.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
415	35.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
416	35.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
417	34.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
418	34.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
419	34.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
420	34.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
421	33.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
422	33.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
423	33.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
424	33.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
425	32.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
426	32.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
427	32.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
428	32.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
429	31.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
430	31.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
431	31.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
432	31.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
433	30.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
434	30.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.26	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
435	30.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
436	30.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
437	29.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
438	29.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
439	29.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
440	29.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
441	28.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
442	28.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
443	28.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
444	28.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
445	27.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
446	27.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
447	27.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
448	27.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
449	26.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
450	26.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
451	26.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
452	26.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
453	25.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
454	25.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
455	25.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
456	25.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
457	24.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
458	24.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
459	24.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
460	24.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00

461	23.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
462	23.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
463	23.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
464	23.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
465	22.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
466	22.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
467	22.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
468	22.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
469	21.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
470	21.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
471	21.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.25	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
472	21.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
473	20.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
474	20.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
475	20.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
476	20.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
477	19.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
478	19.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
479	19.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
480	19.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
481	18.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
482	18.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
483	18.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
484	18.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
485	17.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
486	17.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
487	17.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
488	17.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
489	16.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
490	16.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
491	16.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
492	16.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
493	15.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
494	15.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
495	15.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
496	15.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
497	14.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
498	14.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
499	14.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
500	14.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
501	13.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
502	13.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
503	13.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
504	13.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
505	12.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
506	12.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
507	12.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
508	12.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
509	11.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
510	11.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00

511	11.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
512	11.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
513	10.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
514	10.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
515	10.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
516	10.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
517	9.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
518	9.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
519	9.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
520	9.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
521	8.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
522	8.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
523	8.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
524	8.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
525	7.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
526	7.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
527	7.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
528	7.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
529	6.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
530	6.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
531	6.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
532	6.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
533	5.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
534	5.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
535	5.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
536	5.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
537	4.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
538	4.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
539	4.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
540	4.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
541	3.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
542	3.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.23	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
543	3.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
544	3.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
545	2.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
546	2.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
547	2.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
548	2.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
549	1.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
550	1.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
551	1.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
552	1.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
553	0.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
554	0.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
555	0.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
556	0.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.24	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.05	0.15	0.00	0.00	0.00	0.00	0.00	1.30			0.02	0.00	0.13	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS #/100mL	CHL A	MACRO	COLI	NCM
405	37.750	31.90	0.00	0.00	0.00	5.10	3.15	0.00	3.15	0.00	1.20	0.11	0.00	1.31	0.00	24.00	0.00	0.	0.00
406	37.500	31.90	0.00	0.00	0.00	5.13	3.22	0.00	3.22	0.00	1.20	0.11	0.00	1.31	0.00	24.00	0.00	0.	0.00
407	37.250	31.90	0.00	0.00	0.00	5.14	3.27	0.00	3.27	0.00	1.20	0.11	0.00	1.31	0.00	24.00	0.00	0.	0.00
408	37.000	31.90	0.00	0.00	0.00	5.15	3.33	0.00	3.33	0.00	1.20	0.11	0.00	1.31	0.00	24.00	0.00	0.	0.00
409	36.750	31.90	0.00	0.00	0.00	5.16	3.38	0.00	3.38	0.00	1.19	0.11	0.00	1.31	0.00	24.00	0.00	0.	0.00
410	36.500	31.90	0.00	0.00	0.00	5.16	3.42	0.00	3.42	0.00	1.19	0.11	0.00	1.30	0.00	24.00	0.00	0.	0.00
411	36.250	31.90	0.00	0.00	0.00	5.15	3.46	0.00	3.46	0.00	1.19	0.11	0.00	1.30	0.00	24.00	0.00	0.	0.00
412	36.000	31.90	0.00	0.00	0.00	5.15	3.50	0.00	3.50	0.00	1.19	0.11	0.00	1.30	0.00	24.00	0.00	0.	0.00
413	35.750	31.90	0.00	0.00	0.00	4.86	3.99	0.00	3.99	0.00	1.23	0.11	0.00	1.34	0.00	24.00	0.00	0.	0.00
414	35.500	31.90	0.00	0.00	0.00	4.81	3.98	0.00	3.98	0.00	1.23	0.12	0.00	1.34	0.00	24.00	0.00	0.	0.00
415	35.250	31.90	0.00	0.00	0.00	4.77	3.97	0.00	3.97	0.00	1.22	0.12	0.00	1.34	0.00	24.00	0.00	0.	0.00
416	35.000	31.90	0.00	0.00	0.00	4.73	3.96	0.00	3.96	0.00	1.22	0.12	0.00	1.34	0.00	24.00	0.00	0.	0.00
417	34.750	31.90	0.00	0.00	0.00	4.69	3.95	0.00	3.95	0.00	1.22	0.12	0.00	1.34	0.00	24.00	0.00	0.	0.00
418	34.500	31.90	0.00	0.00	0.00	4.66	3.94	0.00	3.94	0.00	1.22	0.12	0.00	1.34	0.00	24.00	0.00	0.	0.00
419	34.250	31.90	0.00	0.00	0.00	4.62	3.94	0.00	3.94	0.00	1.22	0.12	0.00	1.33	0.00	24.00	0.00	0.	0.00
420	34.000	31.90	0.00	0.00	0.00	4.59	3.93	0.00	3.93	0.00	1.22	0.12	0.00	1.33	0.00	24.00	0.00	0.	0.00
421	33.750	31.90	0.00	0.00	0.00	4.56	3.92	0.00	3.92	0.00	1.22	0.12	0.00	1.33	0.00	24.00	0.00	0.	0.00
422	33.500	31.90	0.00	0.00	0.00	4.53	3.92	0.00	3.92	0.00	1.21	0.12	0.00	1.33	0.00	24.00	0.00	0.	0.00
423	33.250	31.90	0.00	0.00	0.00	4.50	3.91	0.00	3.91	0.00	1.21	0.12	0.00	1.33	0.00	24.00	0.00	0.	0.00
424	33.000	31.90	0.00	0.00	0.00	4.47	3.91	0.00	3.91	0.00	1.21	0.12	0.00	1.33	0.00	24.00	0.00	0.	0.00
425	32.750	31.90	0.00	0.00	0.00	4.44	3.90	0.00	3.90	0.00	1.21	0.12	0.00	1.33	0.00	24.00	0.00	0.	0.00
426	32.500	31.90	0.00	0.00	0.00	4.42	3.90	0.00	3.90	0.00	1.21	0.12	0.00	1.33	0.00	24.00	0.00	0.	0.00
427	32.250	31.90	0.00	0.00	0.00	4.39	3.90	0.00	3.90	0.00	1.21	0.12	0.00	1.32	0.00	24.00	0.00	0.	0.00
428	32.000	31.90	0.00	0.00	0.00	4.37	3.89	0.00	3.89	0.00	1.21	0.12	0.00	1.32	0.00	24.00	0.00	0.	0.00
429	31.750	31.90	0.00	0.00	0.00	4.35	3.89	0.00	3.89	0.00	1.21	0.12	0.00	1.32	0.00	24.00	0.00	0.	0.00
430	31.500	31.90	0.00	0.00	0.00	4.32	3.89	0.00	3.89	0.00	1.20	0.12	0.00	1.32	0.00	24.00	0.00	0.	0.00
431	31.250	31.90	0.00	0.00	0.00	4.30	3.89	0.00	3.89	0.00	1.20	0.12	0.00	1.32	0.00	24.00	0.00	0.	0.00
432	31.000	31.90	0.00	0.00	0.00	4.28	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	24.00	0.00	0.	0.00
433	30.750	31.90	0.00	0.00	0.00	4.26	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	24.00	0.00	0.	0.00
434	30.500	31.90	0.00	0.00	0.00	4.24	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	24.00	0.00	0.	0.00
435	30.250	31.90	0.00	0.00	0.00	4.23	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	24.00	0.00	0.	0.00
436	30.000	31.90	0.00	0.00	0.00	4.21	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
437	29.750	31.90	0.00	0.00	0.00	4.19	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
438	29.500	31.90	0.00	0.00	0.00	4.17	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
439	29.250	31.90	0.00	0.00	0.00	4.16	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
440	29.000	31.90	0.00	0.00	0.00	4.14	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
441	28.750	31.90	0.00	0.00	0.00	4.13	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
442	28.500	31.90	0.00	0.00	0.00	4.11	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
443	28.250	31.90	0.00	0.00	0.00	4.10	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
444	28.000	31.90	0.00	0.00	0.00	4.09	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
445	27.750	31.90	0.00	0.00	0.00	4.07	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
446	27.500	31.90	0.00	0.00	0.00	4.06	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
447	27.250	31.90	0.00	0.00	0.00	4.05	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00

448	27.000	31.90	0.00	0.00	0.00	4.04	3.87	0.00	3.87	0.00	1.18	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
449	26.750	31.90	0.00	0.00	0.00	4.03	3.87	0.00	3.87	0.00	1.18	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
450	26.500	31.90	0.00	0.00	0.00	4.01	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
451	26.250	31.90	0.00	0.00	0.00	4.00	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
452	26.000	31.90	0.00	0.00	0.00	3.99	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
453	25.750	31.90	0.00	0.00	0.00	3.98	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
454	25.500	31.90	0.00	0.00	0.00	3.97	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
455	25.250	31.90	0.00	0.00	0.00	3.96	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
456	25.000	31.90	0.00	0.00	0.00	3.96	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
457	24.750	31.90	0.00	0.00	0.00	3.95	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
458	24.500	31.90	0.00	0.00	0.00	3.94	3.86	0.00	3.86	0.00	1.18	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
459	24.250	31.90	0.00	0.00	0.00	3.93	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
460	24.000	31.90	0.00	0.00	0.00	3.92	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
461	23.750	31.90	0.00	0.00	0.00	3.91	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
462	23.500	31.90	0.00	0.00	0.00	3.91	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
463	23.250	31.90	0.00	0.00	0.00	3.90	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
464	23.000	31.90	0.00	0.00	0.00	3.89	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
465	22.750	31.90	0.00	0.00	0.00	3.88	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
466	22.500	31.90	0.00	0.00	0.00	3.88	3.86	0.00	3.86	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
467	22.250	31.90	0.00	0.00	0.00	3.87	3.87	0.00	3.87	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
468	22.000	31.90	0.00	0.00	0.00	3.86	3.87	0.00	3.87	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
469	21.750	31.90	0.00	0.00	0.00	3.79	4.97	0.00	4.97	0.00	1.20	0.12	0.00	1.32	0.00	24.00	0.00	0.	0.00
470	21.500	31.90	0.00	0.00	0.00	3.71	4.89	0.00	4.89	0.00	1.20	0.12	0.00	1.32	0.00	24.00	0.00	0.	0.00
471	21.250	31.90	0.00	0.00	0.00	3.64	4.82	0.00	4.82	0.00	1.20	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
472	21.000	31.90	0.00	0.00	0.00	3.58	4.75	0.00	4.75	0.00	1.20	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
473	20.750	31.90	0.00	0.00	0.00	3.52	4.69	0.00	4.69	0.00	1.20	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
474	20.500	31.90	0.00	0.00	0.00	3.47	4.63	0.00	4.63	0.00	1.20	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
475	20.250	31.90	0.00	0.00	0.00	3.42	4.58	0.00	4.58	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
476	20.000	31.90	0.00	0.00	0.00	3.38	4.53	0.00	4.53	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
477	19.750	31.90	0.00	0.00	0.00	3.34	4.48	0.00	4.48	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
478	19.500	31.90	0.00	0.00	0.00	3.31	4.44	0.00	4.44	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
479	19.250	31.90	0.00	0.00	0.00	3.27	4.40	0.00	4.40	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
480	19.000	31.90	0.00	0.00	0.00	3.25	4.36	0.00	4.36	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
481	18.750	31.90	0.00	0.00	0.00	3.22	4.33	0.00	4.33	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
482	18.500	31.90	0.00	0.00	0.00	3.20	4.30	0.00	4.30	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
483	18.250	31.90	0.00	0.00	0.00	3.18	4.27	0.00	4.27	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
484	18.000	31.90	0.00	0.00	0.00	3.16	4.24	0.00	4.24	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
485	17.750	31.90	0.00	0.00	0.00	3.15	4.21	0.00	4.21	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
486	17.500	31.90	0.00	0.00	0.00	3.13	4.19	0.00	4.19	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
487	17.250	31.90	0.00	0.00	0.00	3.12	4.17	0.00	4.17	0.00	1.19	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
488	17.000	31.90	0.00	0.00	0.00	3.11	4.15	0.00	4.15	0.00	1.18	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
489	16.750	31.90	0.00	0.00	0.00	3.10	4.13	0.00	4.13	0.00	1.18	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
490	16.500	31.90	0.00	0.00	0.00	3.10	4.11	0.00	4.11	0.00	1.18	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
491	16.250	31.90	0.00	0.00	0.00	3.09	4.09	0.00	4.09	0.00	1.18	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
492	16.000	31.90	0.00	0.00	0.00	3.09	4.08	0.00	4.08	0.00	1.18	0.12	0.00	1.31	0.00	24.00	0.00	0.	0.00
493	15.750	31.90	0.00	0.00	0.00	3.08	4.15	0.00	4.15	0.00	1.17	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
494	15.500	31.90	0.00	0.00	0.00	3.07	4.13	0.00	4.13	0.00	1.17	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
495	15.250	31.90	0.00	0.00	0.00	3.07	4.12	0.00	4.12	0.00	1.17	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
496	15.000	31.90	0.00	0.00	0.00	3.06	4.10	0.00	4.10	0.00	1.17	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
497	14.750	31.90	0.00	0.00	0.00	3.06	4.08	0.00	4.08	0.00	1.17	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00

498	14.500	31.90	0.00	0.00	0.00	3.05	4.07	0.00	4.07	0.00	1.17	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
499	14.250	31.90	0.00	0.00	0.00	3.05	4.06	0.00	4.06	0.00	1.17	0.12	0.00	1.30	0.00	24.00	0.00	0.	0.00
500	14.000	31.90	0.00	0.00	0.00	3.05	4.04	0.00	4.04	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
501	13.750	31.90	0.00	0.00	0.00	3.05	4.03	0.00	4.03	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
502	13.500	31.90	0.00	0.00	0.00	3.05	4.02	0.00	4.02	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
503	13.250	31.90	0.00	0.00	0.00	3.05	4.01	0.00	4.01	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
504	13.000	31.90	0.00	0.00	0.00	3.05	4.00	0.00	4.00	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
505	12.750	31.90	0.00	0.00	0.00	3.05	3.99	0.00	3.99	0.00	1.17	0.12	0.00	1.29	0.00	24.00	0.00	0.	0.00
506	12.500	31.90	0.00	0.00	0.00	3.06	3.98	0.00	3.98	0.00	1.17	0.13	0.00	1.29	0.00	24.00	0.00	0.	0.00
507	12.250	31.90	0.00	0.00	0.00	3.06	3.97	0.00	3.97	0.00	1.17	0.13	0.00	1.29	0.00	24.00	0.00	0.	0.00
508	12.000	31.90	0.00	0.00	0.00	3.06	3.97	0.00	3.97	0.00	1.17	0.13	0.00	1.29	0.00	24.00	0.00	0.	0.00
509	11.750	31.90	0.00	0.00	0.00	3.07	3.96	0.00	3.96	0.00	1.16	0.13	0.00	1.29	0.00	24.00	0.00	0.	0.00
510	11.500	31.90	0.00	0.00	0.00	3.07	3.95	0.00	3.95	0.00	1.16	0.13	0.00	1.29	0.00	24.00	0.00	0.	0.00
511	11.250	31.90	0.00	0.00	0.00	3.08	3.95	0.00	3.95	0.00	1.16	0.13	0.00	1.29	0.00	24.00	0.00	0.	0.00
512	11.000	31.90	0.00	0.00	0.00	3.08	3.94	0.00	3.94	0.00	1.16	0.13	0.00	1.29	0.00	24.00	0.00	0.	0.00
513	10.750	31.90	0.00	0.00	0.00	3.09	3.94	0.00	3.94	0.00	1.16	0.13	0.00	1.29	0.00	24.00	0.00	0.	0.00
514	10.500	31.90	0.00	0.00	0.00	3.09	3.93	0.00	3.93	0.00	1.16	0.13	0.00	1.29	0.00	24.00	0.00	0.	0.00
515	10.250	31.90	0.00	0.00	0.00	3.10	3.93	0.00	3.93	0.00	1.16	0.13	0.00	1.29	0.00	24.00	0.00	0.	0.00
516	10.000	31.90	0.00	0.00	0.00	3.10	3.92	0.00	3.92	0.00	1.16	0.13	0.00	1.29	0.00	24.00	0.00	0.	0.00
517	9.750	31.90	0.00	0.00	0.00	3.11	3.92	0.00	3.92	0.00	1.16	0.13	0.00	1.29	0.00	24.00	0.00	0.	0.00
518	9.500	31.90	0.00	0.00	0.00	3.11	3.91	0.00	3.91	0.00	1.16	0.13	0.00	1.28	0.00	24.00	0.00	0.	0.00
519	9.250	31.90	0.00	0.00	0.00	3.12	3.91	0.00	3.91	0.00	1.16	0.12	0.00	1.28	0.00	24.00	0.00	0.	0.00
520	9.000	31.90	0.00	0.00	0.00	3.13	3.91	0.00	3.91	0.00	1.16	0.12	0.00	1.28	0.00	24.00	0.00	0.	0.00
521	8.750	31.90	0.00	0.00	0.00	3.13	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	24.00	0.00	0.	0.00
522	8.500	31.90	0.00	0.00	0.00	3.14	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	24.00	0.00	0.	0.00
523	8.250	31.90	0.00	0.00	0.00	3.14	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	24.00	0.00	0.	0.00
524	8.000	31.90	0.00	0.00	0.00	3.15	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	24.00	0.00	0.	0.00
525	7.750	31.90	0.00	0.00	0.00	3.15	4.13	0.00	4.13	0.00	1.14	0.12	0.00	1.27	0.00	24.00	0.00	0.	0.00
526	7.500	31.90	0.00	0.00	0.00	3.14	4.11	0.00	4.11	0.00	1.14	0.12	0.00	1.27	0.00	24.00	0.00	0.	0.00
527	7.250	31.90	0.00	0.00	0.00	3.14	4.10	0.00	4.10	0.00	1.14	0.12	0.00	1.27	0.00	24.00	0.00	0.	0.00
528	7.000	31.90	0.00	0.00	0.00	3.13	4.08	0.00	4.08	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
529	6.750	31.90	0.00	0.00	0.00	3.13	4.07	0.00	4.07	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
530	6.500	31.90	0.00	0.00	0.00	3.13	4.06	0.00	4.06	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
531	6.250	31.90	0.00	0.00	0.00	3.12	4.05	0.00	4.05	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
532	6.000	31.90	0.00	0.00	0.00	3.12	4.03	0.00	4.03	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
533	5.750	31.90	0.00	0.00	0.00	3.12	4.02	0.00	4.02	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
534	5.500	31.90	0.00	0.00	0.00	3.12	4.01	0.00	4.01	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
535	5.250	31.90	0.00	0.00	0.00	3.12	4.00	0.00	4.00	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
536	5.000	31.90	0.00	0.00	0.00	3.12	4.00	0.00	4.00	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
537	4.750	31.90	0.00	0.00	0.00	3.12	3.99	0.00	3.99	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
538	4.500	31.90	0.00	0.00	0.00	3.12	3.98	0.00	3.98	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
539	4.250	31.90	0.00	0.00	0.00	3.13	3.97	0.00	3.97	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
540	4.000	31.90	0.00	0.00	0.00	3.13	3.97	0.00	3.97	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
541	3.750	31.90	0.00	0.00	0.00	3.13	3.96	0.00	3.96	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
542	3.500	31.90	0.00	0.00	0.00	3.13	3.95	0.00	3.95	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
543	3.250	31.90	0.00	0.00	0.00	3.14	3.95	0.00	3.95	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
544	3.000	31.90	0.00	0.00	0.00	3.14	3.94	0.00	3.94	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
545	2.750	31.90	0.00	0.00	0.00	3.15	3.94	0.00	3.94	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
546	2.500	31.90	0.00	0.00	0.00	3.15	3.93	0.00	3.93	0.00	1.14	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
547	2.250	31.90	0.00	0.00	0.00	3.15	3.93	0.00	3.93	0.00	1.13	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00

548	2.000	31.90	0.00	0.00	0.00	3.16	3.92	0.00	3.92	0.00	1.13	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
549	1.750	31.90	0.00	0.00	0.00	3.16	3.92	0.00	3.92	0.00	1.13	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
550	1.500	31.90	0.00	0.00	0.00	3.17	3.92	0.00	3.92	0.00	1.13	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
551	1.250	31.90	0.00	0.00	0.00	3.17	3.91	0.00	3.91	0.00	1.13	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
552	1.000	31.90	0.00	0.00	0.00	3.18	3.91	0.00	3.91	0.00	1.13	0.12	0.00	1.26	0.00	24.00	0.00	0.	0.00
553	0.750	31.90	0.00	0.00	0.00	3.18	3.91	0.00	3.91	0.00	1.13	0.12	0.00	1.25	0.00	24.00	0.00	0.	0.00
554	0.500	31.90	0.00	0.00	0.00	3.19	3.90	0.00	3.90	0.00	1.13	0.12	0.00	1.25	0.00	24.00	0.00	0.	0.00
555	0.250	31.90	0.00	0.00	0.00	3.20	3.90	0.00	3.90	0.00	1.13	0.12	0.00	1.25	0.00	24.00	0.00	0.	0.00
556	0.000	31.90	0.00	0.00	0.00	3.20	3.90	0.00	3.90	0.00	1.13	0.12	0.00	1.25	0.00	24.00	0.00	0.	0.00

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

TRAVEL TIME = 410.60 DAYS

MAXIMUM EFFLUENT = 97.41 PERCENT

FLOW = 0.28132 TO 49.45604 m^3/s
DISPERSION = 0.0000 TO 0.0000 m^2/s
VELOCITY = 0.00017 TO 0.01772 m/s
DEPTH = 9.30 TO 13.35 m
WIDTH = 155.80 TO 395.30 m

BOD DECAY = 0.25 TO 0.26 per day
NH3 DECAY = 0.23 TO 0.28 per day
SOD = 2.03 TO 4.77 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.07 TO 0.09 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 31.22 TO 32.30 deg C
DISSOLVED OXYGEN = 3.05 TO 6.77 mg/L

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

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

ELEM 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
225	HDWTR	0.00700	32.00	0.00	0.00	0.00	1.49	9.75	0.00	9.75	0.00	1.41	0.30	0.00	0.00	25.00	0.00	0.00
EACH	INCR	0.00400	29.70	0.00	0.00	0.00	5.00	3.70	0.00			1.10	0.10	0.00	0.00	0.00	0.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
225	45.00	44.75	0.01100	0.0	0.00001	236.47	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
226	44.75	44.50	0.01500	0.0	0.00002	173.41	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
227	44.50	44.25	0.01900	0.0	0.00002	136.90	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
228	44.25	44.00	0.02300	0.0	0.00003	113.09	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
229	44.00	43.75	0.02700	0.0	0.00003	96.34	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
230	43.75	43.50	0.03100	0.0	0.00003	83.91	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
231	43.50	43.25	0.03500	0.0	0.00004	74.32	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
232	43.25	43.00	0.03900	0.0	0.00004	66.70	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
233	43.00	42.75	0.04300	0.0	0.00005	60.49	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
234	42.75	42.50	0.04700	0.0	0.00005	55.34	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
235	42.50	42.25	0.05100	0.0	0.00006	51.00	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
236	42.25	42.00	0.05500	0.0	0.00006	47.29	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
237	42.00	41.75	0.05900	0.0	0.00007	44.09	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
238	41.75	41.50	0.06300	0.0	0.00007	41.29	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
239	41.50	41.25	0.06700	0.0	0.00007	38.82	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
240	41.25	41.00	0.07100	0.0	0.00008	36.64	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
241	41.00	40.75	0.07500	0.0	0.00008	34.68	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
242	40.75	40.50	0.07900	0.0	0.00009	32.93	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
243	40.50	40.25	0.08300	0.0	0.00009	31.34	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
244	40.25	40.00	0.08700	0.0	0.00010	29.90	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
245	40.00	39.75	0.09100	0.0	0.00010	28.58	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
246	39.75	39.50	0.09500	0.0	0.00011	27.38	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
247	39.50	39.25	0.09900	0.0	0.00011	26.27	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
248	39.25	39.00	0.10300	0.0	0.00011	25.25	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
249	39.00	38.75	0.10700	0.0	0.00012	24.31	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.000	0.000
TOT						1616.76			5618529.50	1229437.50					
AVG				0.0000			4.57	196.71			898.96				
CUM						1616.76									

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY *	NH3 SRCE **	NH3 RATE **	DENIT PROD 1/da	PO4 PROD 1/da	ALG DECAY 1/da	MAC DECAY 1/da	COLI SETT 1/da	NCM	NCM
225	44.750	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
226	44.500	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
227	44.250	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
228	44.000	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
229	43.750	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
230	43.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
231	43.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00

232	43.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
233	42.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
234	42.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
235	42.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
236	42.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
237	41.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
238	41.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
239	41.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
240	41.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
241	40.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
242	40.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
243	40.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
244	40.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
245	39.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
246	39.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
247	39.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
248	39.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
249	38.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.15 0.15 0.00 0.00 0.00 0.00 0.00 0.70 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
225	44.750	32.10	0.00	0.00	0.00	10.55	0.46	0.00	0.46	0.00	0.25	0.02	0.00	0.26	0.00	25.00	0.00	0.	0.00
226	44.500	32.09	0.00	0.00	0.00	10.87	0.36	0.00	0.36	0.00	0.14	0.01	0.00	0.15	0.00	25.00	0.00	0.	0.00
227	44.250	32.09	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
228	44.000	32.08	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
229	43.750	32.08	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
230	43.500	32.08	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
231	43.250	32.07	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
232	43.000	32.07	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
233	42.750	32.06	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
234	42.500	32.06	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
235	42.250	32.06	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
236	42.000	32.05	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
237	41.750	32.05	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
238	41.500	32.04	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
239	41.250	32.04	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
240	41.000	32.04	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
241	40.750	32.03	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
242	40.500	32.03	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
243	40.250	32.02	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
244	40.000	32.02	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
245	39.750	32.02	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00

246	39.500	32.01	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
247	39.250	32.01	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
248	39.000	32.00	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
249	38.750	32.00	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00

FINAL REPORT Bayou Black LA-QUAL calibration for Gulf ICWW and Bayou Black
REACH NO. 6 Bayou Black FTN Field Survey calibration

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2 #/100mL	PHOS	CHL A	COLI	NCM
250	UPR RCH	0.10700	32.00	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.00	25.00	0.00	0.00
EACH	INCR	0.00286	29.70	0.00	0.00	0.00	5.00	3.70	0.00		1.10	0.10	0.00	0.00	0.00	0.00		
260	WSTLD	0.00014	31.20	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
268	WSTLD	0.00004	31.20	0.00	0.00	0.00	5.00	30.00	0.00	30.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
278	WSTLD	0.00150	31.20	0.00	0.00	0.00	5.00	24.70	0.00	24.70	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m	AREA m³	AREA m²	VOLUME m²	PRISM m³	SURFACE VELO m/s	X-SECT VELO m²/s	TIDAL VELO m/s	TIDAL	DISPRSN	MEAN
250	38.75	38.50	0.10986	0.0	0.00304	0.95	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.003			
251	38.50	38.25	0.11271	0.0	0.00312	0.93	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.003			
252	38.25	38.00	0.11557	0.0	0.00320	0.91	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.003			
253	38.00	37.75	0.11843	0.0	0.00328	0.88	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.003			
254	37.75	37.50	0.12129	0.0	0.00335	0.86	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.003			
255	37.50	37.25	0.12414	0.0	0.00343	0.84	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.003			
256	37.25	37.00	0.12700	0.0	0.00351	0.82	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
257	37.00	36.75	0.12986	0.0	0.00359	0.81	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
258	36.75	36.50	0.13271	0.0	0.00367	0.79	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
259	36.50	36.25	0.13557	0.0	0.00375	0.77	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
260	36.25	36.00	0.13857	0.1	0.00383	0.76	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
261	36.00	35.75	0.14143	0.1	0.00391	0.74	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
262	35.75	35.50	0.14428	0.1	0.00399	0.73	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
263	35.50	35.25	0.14714	0.1	0.00407	0.71	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
264	35.25	35.00	0.15000	0.1	0.00415	0.70	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
265	35.00	34.75	0.15285	0.1	0.00423	0.68	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
266	34.75	34.50	0.15571	0.1	0.00431	0.67	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
267	34.50	34.25	0.15857	0.1	0.00439	0.66	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
268	34.25	34.00	0.16147	0.1	0.00447	0.65	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004			
269	34.00	33.75	0.16432	0.1	0.00454	0.64	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005			
270	33.75	33.50	0.16718	0.1	0.00462	0.63	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005			
271	33.50	33.25	0.17004	0.1	0.00470	0.62	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005			

272	33.25	33.00	0.17289	0.1	0.00478	0.61	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
273	33.00	32.75	0.17575	0.1	0.00486	0.60	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
274	32.75	32.50	0.17861	0.1	0.00494	0.59	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
275	32.50	32.25	0.18147	0.1	0.00502	0.58	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
276	32.25	32.00	0.18432	0.1	0.00510	0.57	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
277	32.00	31.75	0.18718	0.1	0.00518	0.56	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
278	31.75	31.50	0.19154	0.9	0.00530	0.55	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
279	31.50	31.25	0.19439	0.9	0.00538	0.54	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
280	31.25	31.00	0.19725	0.9	0.00546	0.53	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
281	31.00	30.75	0.20011	0.8	0.00553	0.52	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
282	30.75	30.50	0.20297	0.8	0.00561	0.52	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
283	30.50	30.25	0.20582	0.8	0.00569	0.51	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
284	30.25	30.00	0.20868	0.8	0.00577	0.50	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006

TOT			23.89		316375.50	272737.50
AVG		0.0042		1.16	31.17	36.16
CUM			1640.65			

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

ELEM NO.	ENDING DIST 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 **	ORGN DECAY **	NH3 SRCE 1/da	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT
250	38.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
251	38.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
252	38.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.44	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
253	37.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
254	37.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
255	37.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
256	37.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
257	36.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
258	36.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
259	36.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
260	36.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
261	35.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
262	35.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
263	35.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
264	35.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
265	34.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
266	34.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
267	34.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
268	34.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
269	33.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
270	33.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
271	33.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
272	33.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
273	32.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
274	32.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00

275	32.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
276	32.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
277	31.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
278	31.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
279	31.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
280	31.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
281	30.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
282	30.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
283	30.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
284	30.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.60 0.15 0.00 0.00 0.00 0.00 0.00 0.70 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
250	38.500	32.00	0.00	0.00	0.00	8.96	1.81	0.00	1.81	0.00	0.21	0.01	0.00	0.22	0.00	25.71	0.00	0.	0.00
251	38.250	32.00	0.00	0.00	0.00	7.74	2.91	0.00	2.91	0.00	0.28	0.01	0.00	0.30	0.00	26.43	0.00	0.	0.00
252	38.000	32.00	0.00	0.00	0.00	6.95	3.76	0.00	3.76	0.00	0.35	0.02	0.00	0.37	0.00	27.14	0.00	0.	0.00
253	37.750	32.00	0.00	0.00	0.00	6.42	4.42	0.00	4.42	0.00	0.42	0.02	0.00	0.44	0.00	27.86	0.00	0.	0.00
254	37.500	32.00	0.00	0.00	0.00	6.05	4.93	0.00	4.93	0.00	0.48	0.02	0.00	0.50	0.00	28.57	0.00	0.	0.00
255	37.250	32.00	0.00	0.00	0.00	5.80	5.33	0.00	5.33	0.00	0.53	0.03	0.00	0.56	0.00	29.29	0.00	0.	0.00
256	37.000	32.00	0.00	0.00	0.00	5.62	5.65	0.00	5.65	0.00	0.59	0.03	0.00	0.62	0.00	30.00	0.00	0.	0.00
257	36.750	32.00	0.00	0.00	0.00	5.50	5.90	0.00	5.90	0.00	0.64	0.03	0.00	0.67	0.00	30.71	0.00	0.	0.00
258	36.500	32.00	0.00	0.00	0.00	5.41	6.09	0.00	6.09	0.00	0.68	0.04	0.00	0.72	0.00	31.43	0.00	0.	0.00
259	36.250	32.00	0.00	0.00	0.00	5.35	6.25	0.00	6.25	0.00	0.73	0.04	0.00	0.76	0.00	32.14	0.00	0.	0.00
260	36.000	32.00	0.00	0.00	0.00	5.31	6.41	0.00	6.41	0.00	0.77	0.04	0.00	0.81	0.00	32.86	0.00	0.	0.00
261	35.750	32.00	0.00	0.00	0.00	5.28	6.50	0.00	6.50	0.00	0.81	0.05	0.00	0.85	0.00	33.57	0.00	0.	0.00
262	35.500	32.00	0.00	0.00	0.00	5.27	6.58	0.00	6.58	0.00	0.84	0.05	0.00	0.89	0.00	34.29	0.00	0.	0.00
263	35.250	32.00	0.00	0.00	0.00	5.27	6.64	0.00	6.64	0.00	0.88	0.05	0.00	0.93	0.00	35.00	0.00	0.	0.00
264	35.000	32.00	0.00	0.00	0.00	5.27	6.70	0.00	6.70	0.00	0.91	0.05	0.00	0.96	0.00	35.71	0.00	0.	0.00
265	34.750	32.00	0.00	0.00	0.00	5.29	6.74	0.00	6.74	0.00	0.94	0.05	0.00	0.99	0.00	36.43	0.00	0.	0.00
266	34.500	32.00	0.00	0.00	0.00	5.30	6.77	0.00	6.77	0.00	0.97	0.06	0.00	1.02	0.00	37.14	0.00	0.	0.00
267	34.250	32.00	0.00	0.00	0.00	5.32	6.80	0.00	6.80	0.00	0.99	0.06	0.00	1.05	0.00	37.86	0.00	0.	0.00
268	34.000	32.00	0.00	0.00	0.00	5.34	6.83	0.00	6.83	0.00	1.02	0.06	0.00	1.08	0.00	38.57	0.00	0.	0.00
269	33.750	32.00	0.00	0.00	0.00	5.37	6.85	0.00	6.85	0.00	1.05	0.06	0.00	1.11	0.00	39.29	0.00	0.	0.00
270	33.500	32.00	0.00	0.00	0.00	5.40	6.86	0.00	6.86	0.00	1.07	0.06	0.00	1.13	0.00	40.00	0.00	0.	0.00
271	33.250	32.00	0.00	0.00	0.00	5.43	6.87	0.00	6.87	0.00	1.09	0.06	0.00	1.15	0.00	40.71	0.00	0.	0.00
272	33.000	32.00	0.00	0.00	0.00	5.46	6.89	0.00	6.89	0.00	1.11	0.06	0.00	1.18	0.00	41.43	0.00	0.	0.00
273	32.750	32.00	0.00	0.00	0.00	5.49	6.89	0.00	6.89	0.00	1.13	0.07	0.00	1.20	0.00	42.14	0.00	0.	0.00
274	32.500	32.00	0.00	0.00	0.00	5.52	6.90	0.00	6.90	0.00	1.15	0.07	0.00	1.22	0.00	42.86	0.00	0.	0.00
275	32.250	32.00	0.00	0.00	0.00	5.56	6.91	0.00	6.91	0.00	1.17	0.07	0.00	1.24	0.00	43.57	0.00	0.	0.00
276	32.000	32.00	0.00	0.00	0.00	5.59	6.91	0.00	6.91	0.00	1.19	0.07	0.00	1.26	0.00	44.29	0.00	0.	0.00
277	31.750	32.00	0.00	0.00	0.00	5.62	6.92	0.00	6.92	0.00	1.21	0.07	0.00	1.28	0.00	45.00	0.00	0.	0.00
278	31.500	32.00	0.00	0.00	0.00	5.64	7.04	0.00	7.04	0.00	1.22	0.08	0.00	1.30	0.00	45.71	0.00	0.	0.00

279	31.250	32.00	0.00	0.00	0.00	5.66	7.03	0.00	7.03	0.00	1.24	0.08	0.00	1.32	0.00	46.43	0.00	0.	0.00
280	31.000	32.00	0.00	0.00	0.00	5.70	7.02	0.00	7.02	0.00	1.25	0.08	0.00	1.33	0.00	47.14	0.00	0.	0.00
281	30.750	32.00	0.00	0.00	0.00	5.73	7.01	0.00	7.01	0.00	1.27	0.08	0.00	1.35	0.00	47.86	0.00	0.	0.00
282	30.500	32.00	0.00	0.00	0.00	5.77	7.00	0.00	7.00	0.00	1.28	0.08	0.00	1.36	0.00	48.57	0.00	0.	0.00
283	30.250	32.00	0.00	0.00	0.00	5.81	6.99	0.00	6.99	0.00	1.29	0.08	0.00	1.37	0.00	49.29	0.00	0.	0.00
284	30.000	32.00	0.00	0.00	0.00	5.85	6.99	0.00	6.99	0.00	1.31	0.08	0.00	1.38	0.00	50.00	0.00	0.	0.00

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

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS #/100mL	CHL A	COLI	NCM
285	UPR RCH	0.20868	32.00	0.00	0.00	0.00	5.85	6.99	0.00	6.99	0.00	1.31	0.08	0.00	0.00	50.00	0.00	0.00
EACH	INCR	0.00143	29.70	0.00	0.00	0.00	5.00	3.70	0.00		1.10	0.10	0.00	0.00	0.00	0.00		
292	WSTLD	0.00192	31.20	0.00	0.00	0.00	5.00	22.90	0.00	22.90	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
312	WSTLD	0.00071	31.20	0.00	0.00	0.00	5.00	30.00	0.00	30.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
331	WSTLD	0.00018	31.20	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
339	WSTLD	0.00042	31.20	0.00	0.00	0.00	5.00	30.00	0.00	30.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
352	WSTLD	0.00566	31.20	0.00	0.00	0.00	5.00	25.00	0.00	25.00	0.00	1.40	20.00	2.00	0.00	0.00	0.00	0.00
369	WSTLD	0.00160	31.20	0.00	0.00	0.00	5.00	11.00	0.00	11.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
372	WSTLD	0.00001	31.20	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
373	WSTLD	0.52662	31.20	0.00	0.00	0.00	10.40	7.20	0.00	7.20	0.00	1.40	0.10	0.00	0.00	0.00	0.00	0.00
401	WSTLD	1.30238	31.20	0.00	0.00	0.00	2.30	9.40	0.00	9.40	0.00	1.63	0.14	0.00	0.00	0.00	0.00	0.00
402	WSTLD	0.00039	31.20	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.63	1.50	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	PRISM m/s	VELO m²/s	TIDAL VELO m/s	TIDAL	DISPRSN	MEAN
285	30.00	29.75	0.21011	0.8	0.00581	0.50	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			
286	29.75	29.50	0.21155	0.8	0.00585	0.49	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			
287	29.50	29.25	0.21298	0.8	0.00589	0.49	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			
288	29.25	29.00	0.21441	0.8	0.00593	0.49	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			
289	29.00	28.75	0.21585	0.8	0.00597	0.48	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			
290	28.75	28.50	0.21728	0.8	0.00601	0.48	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			
291	28.50	28.25	0.21871	0.8	0.00605	0.48	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			
292	28.25	28.00	0.22207	1.6	0.00614	0.47	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			
293	28.00	27.75	0.22350	1.6	0.00618	0.47	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			
294	27.75	27.50	0.22493	1.6	0.00622	0.47	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			
295	27.50	27.25	0.22637	1.6	0.00626	0.46	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			
296	27.25	27.00	0.22780	1.6	0.00630	0.46	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			
297	27.00	26.75	0.22923	1.6	0.00634	0.46	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006			

298	26.75	26.50	0.23067	1.6	0.00638	0.45	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
299	26.50	26.25	0.23210	1.6	0.00642	0.45	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
300	26.25	26.00	0.23353	1.5	0.00646	0.45	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
301	26.00	25.75	0.23497	1.5	0.00650	0.45	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
302	25.75	25.50	0.23640	1.5	0.00654	0.44	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
303	25.50	25.25	0.23783	1.5	0.00658	0.44	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
304	25.25	25.00	0.23927	1.5	0.00662	0.44	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
305	25.00	24.75	0.24070	1.5	0.00666	0.43	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
306	24.75	24.50	0.24213	1.5	0.00670	0.43	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
307	24.50	24.25	0.24357	1.5	0.00674	0.43	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
308	24.25	24.00	0.24500	1.5	0.00678	0.43	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
309	24.00	23.75	0.24643	1.5	0.00682	0.42	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
310	23.75	23.50	0.24787	1.5	0.00686	0.42	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
311	23.50	23.25	0.24930	1.4	0.00689	0.42	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
312	23.25	23.00	0.25144	1.7	0.00695	0.42	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
313	23.00	22.75	0.25288	1.7	0.00699	0.41	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
314	22.75	22.50	0.25431	1.7	0.00703	0.41	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
315	22.50	22.25	0.25574	1.7	0.00707	0.41	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
316	22.25	22.00	0.25718	1.7	0.00711	0.41	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
317	22.00	21.75	0.25861	1.7	0.00715	0.40	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
318	21.75	21.50	0.26004	1.7	0.00719	0.40	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
319	21.50	21.25	0.26148	1.6	0.00723	0.40	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
320	21.25	21.00	0.26291	1.6	0.00727	0.40	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
321	21.00	20.75	0.26434	1.6	0.00731	0.40	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
322	20.75	20.50	0.26578	1.6	0.00735	0.39	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
323	20.50	20.25	0.26721	1.6	0.00739	0.39	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
324	20.25	20.00	0.26864	1.6	0.00743	0.39	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
325	20.00	19.75	0.27008	1.6	0.00747	0.39	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
326	19.75	19.50	0.27151	1.6	0.00751	0.39	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
327	19.50	19.25	0.27294	1.6	0.00755	0.38	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
328	19.25	19.00	0.27438	1.6	0.00759	0.38	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
329	19.00	18.75	0.27581	1.6	0.00763	0.38	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
330	18.75	18.50	0.27724	1.6	0.00767	0.38	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
331	18.50	18.25	0.27886	1.6	0.00771	0.38	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
332	18.25	18.00	0.28029	1.6	0.00775	0.37	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
333	18.00	17.75	0.28172	1.6	0.00779	0.37	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
334	17.75	17.50	0.28316	1.6	0.00783	0.37	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
335	17.50	17.25	0.28459	1.6	0.00787	0.37	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
336	17.25	17.00	0.28602	1.6	0.00791	0.37	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
337	17.00	16.75	0.28746	1.6	0.00795	0.36	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
338	16.75	16.50	0.28889	1.6	0.00799	0.36	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
339	16.50	16.25	0.29074	1.7	0.00804	0.36	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
340	16.25	16.00	0.29218	1.7	0.00808	0.36	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
341	16.00	15.75	0.29361	1.7	0.00812	0.36	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
342	15.75	15.50	0.29504	1.7	0.00816	0.35	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
343	15.50	15.25	0.29648	1.7	0.00820	0.35	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
344	15.25	15.00	0.29791	1.6	0.00824	0.35	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
345	15.00	14.75	0.29934	1.6	0.00828	0.35	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
346	14.75	14.50	0.30078	1.6	0.00832	0.35	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
347	14.50	14.25	0.30221	1.6	0.00836	0.35	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008

348	14.25	14.00	0.30364	1.6	0.00840	0.34	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
349	14.00	13.75	0.30508	1.6	0.00844	0.34	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
350	13.75	13.50	0.30651	1.6	0.00848	0.34	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
351	13.50	13.25	0.30794	1.6	0.00852	0.34	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
352	13.25	13.00	0.31504	3.4	0.00871	0.33	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
353	13.00	12.75	0.31647	3.3	0.00875	0.33	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
354	12.75	12.50	0.31790	3.3	0.00879	0.33	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
355	12.50	12.25	0.31934	3.3	0.00883	0.33	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
356	12.25	12.00	0.32077	3.3	0.00887	0.33	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
357	12.00	11.75	0.32220	3.3	0.00891	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
358	11.75	11.50	0.32364	3.3	0.00895	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
359	11.50	11.25	0.32507	3.3	0.00899	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
360	11.25	11.00	0.32650	3.2	0.00903	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
361	11.00	10.75	0.32794	3.2	0.00907	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
362	10.75	10.50	0.32937	3.2	0.00911	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
363	10.50	10.25	0.33080	3.2	0.00915	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
364	10.25	10.00	0.33224	3.2	0.00919	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
365	10.00	9.75	0.33367	3.2	0.00923	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
366	9.75	9.50	0.33510	3.2	0.00927	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
367	9.50	9.25	0.33654	3.1	0.00931	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
368	9.25	9.00	0.33797	3.1	0.00935	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
369	9.00	8.75	0.34100	3.6	0.00943	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
370	8.75	8.50	0.34244	3.6	0.00947	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
371	8.50	8.25	0.34387	3.5	0.00951	0.30	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.010
372	8.25	8.00	0.34531	3.5	0.00955	0.30	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.010
373	8.00	7.75	0.87337	61.7	0.02415	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.024
374	7.75	7.50	0.87480	61.6	0.02419	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.024
375	7.50	7.25	0.87623	61.5	0.02423	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.024
376	7.25	7.00	0.87767	61.4	0.02427	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.024
377	7.00	6.75	0.87910	61.3	0.02431	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.024
378	6.75	6.50	0.88053	61.2	0.02435	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.024
379	6.50	6.25	0.88197	61.1	0.02439	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.024
380	6.25	6.00	0.88340	61.0	0.02443	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.024
381	6.00	5.75	0.88483	60.9	0.02447	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.024
382	5.75	5.50	0.88627	60.8	0.02451	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
383	5.50	5.25	0.88770	60.7	0.02455	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
384	5.25	5.00	0.88913	60.6	0.02459	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
385	5.00	4.75	0.89057	60.5	0.02463	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
386	4.75	4.50	0.89200	60.4	0.02467	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
387	4.50	4.25	0.89343	60.3	0.02471	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
388	4.25	4.00	0.89487	60.2	0.02475	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
389	4.00	3.75	0.89630	60.1	0.02479	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
390	3.75	3.50	0.89773	60.0	0.02483	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
391	3.50	3.25	0.89917	59.9	0.02487	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
392	3.25	3.00	0.90060	59.8	0.02491	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
393	3.00	2.75	0.90203	59.7	0.02495	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
394	2.75	2.50	0.90347	59.6	0.02499	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
395	2.50	2.25	0.90490	59.5	0.02503	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
396	2.25	2.00	0.90633	59.4	0.02507	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
397	2.00	1.75	0.90777	59.4	0.02511	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025

398	1.75	1.50	0.90920	59.3	0.02515	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
399	1.50	1.25	0.91063	59.2	0.02519	0.11	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
400	1.25	1.00	0.91207	59.1	0.02523	0.11	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
401	1.00	0.75	2.21588	83.1	0.06128	0.05	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.061
402	0.75	0.50	2.21770	83.0	0.06134	0.05	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.061
403	0.50	0.25	2.21914	83.0	0.06137	0.05	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.061
404	0.25	0.00	2.22057	82.9	0.06141	0.05	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.061

TOT			37.47		1084716.88	935100.00
AVG		0.0093		1.16	31.17	36.16
CUM			1678.12			

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD *	FULL SOD 1/da	CORR DECAY *	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
285	29.750	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.25	0.00	0.00	0.00
286	29.500	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.24	0.00	0.00	0.00
287	29.250	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.23	0.00	0.00	0.00
288	29.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.22	0.00	0.00	0.00
289	28.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.21	0.00	0.00	0.00
290	28.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.20	0.00	0.00	0.00
291	28.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.19	0.00	0.00	0.00
292	28.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.18	0.00	0.00	0.00
293	27.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.17	0.00	0.00	0.00
294	27.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.16	0.00	0.00	0.00
295	27.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.15	0.00	0.00	0.00
296	27.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.14	0.00	0.00	0.00
297	26.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.13	0.00	0.00	0.00
298	26.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.12	0.00	0.00	0.00
299	26.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.11	0.00	0.00	0.00
300	26.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.10	0.00	0.00	0.00
301	25.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.09	0.00	0.00	0.00
302	25.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.08	0.00	0.00	0.00
303	25.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.07	0.00	0.00	0.00
304	25.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.06	0.00	0.00	0.00
305	24.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.05	0.00	0.00	0.00
306	24.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.04	0.00	0.00	0.00
307	24.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.03	0.00	0.00	0.00
308	24.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.02	0.00	0.00	0.00
309	23.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.01	0.00	0.00	0.00
310	23.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.00	0.00	0.00	0.00
311	23.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.99	0.00	0.00	0.00
312	23.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.98	0.00	0.00	0.00
313	22.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.97	0.00	0.00	0.00
314	22.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.96	0.00	0.00	0.00
315	22.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.95	0.00	0.00	0.00

316	22.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.00
317	21.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
318	21.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
319	21.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.00
320	21.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
321	20.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.89	0.00	0.00	0.00	0.00
322	20.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00
323	20.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
324	20.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.00
325	19.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
326	19.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
327	19.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
328	19.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
329	18.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
330	18.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
331	18.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00
332	18.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00
333	17.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
334	17.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00
335	17.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00
336	17.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
337	16.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
338	16.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
339	16.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
340	16.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
341	15.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
342	15.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
343	15.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
344	15.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
345	14.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
346	14.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
347	14.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
348	14.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
349	13.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
350	13.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
351	13.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
352	13.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
353	12.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
354	12.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.00
355	12.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
356	12.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
357	11.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00
358	11.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00
359	11.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
360	11.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
361	10.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00
362	10.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
363	10.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
364	10.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
365	9.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00

366	9.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
367	9.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00
368	9.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
369	8.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
370	8.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
371	8.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
372	8.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
373	7.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.44	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
374	7.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.44	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
375	7.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.44	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
376	7.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
377	6.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
378	6.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
379	6.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
380	6.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
381	5.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
382	5.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
383	5.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
384	5.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
385	4.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
386	4.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
387	4.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
388	4.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
389	3.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
390	3.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
391	3.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
392	3.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
393	2.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
394	2.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
395	2.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00
396	2.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
397	1.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
398	1.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
399	1.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
400	1.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
401	0.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
402	0.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
403	0.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
404	0.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.60	0.17	0.00	0.00	0.00	0.00	0.00	1.30			0.02	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM

285	29.750	32.00	0.00	0.00	0.00	5.44	6.49	0.00	6.49	0.00	1.30	0.08	0.00	1.38	0.00	49.78	0.00	0.	0.00
286	29.500	32.00	0.00	0.00	0.00	5.20	6.07	0.00	6.07	0.00	1.29	0.08	0.00	1.37	0.00	49.57	0.00	0.	0.00
287	29.250	32.00	0.00	0.00	0.00	5.05	5.70	0.00	5.70	0.00	1.28	0.08	0.00	1.36	0.00	49.35	0.00	0.	0.00
288	29.000	32.00	0.00	0.00	0.00	4.98	5.39	0.00	5.39	0.00	1.27	0.08	0.00	1.35	0.00	49.13	0.00	0.	0.00
289	28.750	32.00	0.00	0.00	0.00	4.95	5.11	0.00	5.11	0.00	1.27	0.08	0.00	1.34	0.00	48.92	0.00	0.	0.00
290	28.500	32.00	0.00	0.00	0.00	4.95	4.88	0.00	4.88	0.00	1.26	0.08	0.00	1.34	0.00	48.70	0.00	0.	0.00
291	28.250	31.99	0.00	0.00	0.00	4.97	4.67	0.00	4.67	0.00	1.25	0.08	0.00	1.33	0.00	48.48	0.00	0.	0.00
292	28.000	31.99	0.00	0.00	0.00	4.98	4.64	0.00	4.64	0.00	1.24	0.09	0.00	1.33	0.00	48.27	0.00	0.	0.00
293	27.750	31.99	0.00	0.00	0.00	5.00	4.47	0.00	4.47	0.00	1.24	0.09	0.00	1.32	0.00	48.05	0.00	0.	0.00
294	27.500	31.99	0.00	0.00	0.00	5.03	4.32	0.00	4.32	0.00	1.23	0.08	0.00	1.32	0.00	47.83	0.00	0.	0.00
295	27.250	31.99	0.00	0.00	0.00	5.06	4.19	0.00	4.19	0.00	1.22	0.08	0.00	1.31	0.00	47.62	0.00	0.	0.00
296	27.000	31.99	0.00	0.00	0.00	5.09	4.08	0.00	4.08	0.00	1.22	0.08	0.00	1.30	0.00	47.40	0.00	0.	0.00
297	26.750	31.99	0.00	0.00	0.00	5.12	3.98	0.00	3.98	0.00	1.21	0.08	0.00	1.29	0.00	47.18	0.00	0.	0.00
298	26.500	31.99	0.00	0.00	0.00	5.15	3.90	0.00	3.90	0.00	1.20	0.08	0.00	1.28	0.00	46.97	0.00	0.	0.00
299	26.250	31.99	0.00	0.00	0.00	5.17	3.83	0.00	3.83	0.00	1.20	0.08	0.00	1.28	0.00	46.75	0.00	0.	0.00
300	26.000	31.99	0.00	0.00	0.00	5.19	3.76	0.00	3.76	0.00	1.19	0.08	0.00	1.27	0.00	46.53	0.00	0.	0.00
301	25.750	31.99	0.00	0.00	0.00	5.21	3.71	0.00	3.71	0.00	1.19	0.08	0.00	1.26	0.00	46.32	0.00	0.	0.00
302	25.500	31.99	0.00	0.00	0.00	5.23	3.66	0.00	3.66	0.00	1.18	0.08	0.00	1.26	0.00	46.10	0.00	0.	0.00
303	25.250	31.98	0.00	0.00	0.00	5.24	3.61	0.00	3.61	0.00	1.18	0.08	0.00	1.25	0.00	45.88	0.00	0.	0.00
304	25.000	31.98	0.00	0.00	0.00	5.25	3.58	0.00	3.58	0.00	1.17	0.08	0.00	1.25	0.00	45.67	0.00	0.	0.00
305	24.750	31.98	0.00	0.00	0.00	5.26	3.54	0.00	3.54	0.00	1.17	0.07	0.00	1.24	0.00	45.45	0.00	0.	0.00
306	24.500	31.98	0.00	0.00	0.00	5.27	3.52	0.00	3.52	0.00	1.16	0.07	0.00	1.23	0.00	45.23	0.00	0.	0.00
307	24.250	31.98	0.00	0.00	0.00	5.27	3.49	0.00	3.49	0.00	1.16	0.07	0.00	1.23	0.00	45.02	0.00	0.	0.00
308	24.000	31.98	0.00	0.00	0.00	5.27	3.47	0.00	3.47	0.00	1.15	0.07	0.00	1.22	0.00	44.80	0.00	0.	0.00
309	23.750	31.98	0.00	0.00	0.00	5.27	3.45	0.00	3.45	0.00	1.15	0.07	0.00	1.22	0.00	44.58	0.00	0.	0.00
310	23.500	31.98	0.00	0.00	0.00	5.27	3.43	0.00	3.43	0.00	1.14	0.07	0.00	1.21	0.00	44.37	0.00	0.	0.00
311	23.250	31.98	0.00	0.00	0.00	5.27	3.42	0.00	3.42	0.00	1.14	0.07	0.00	1.21	0.00	44.15	0.00	0.	0.00
312	23.000	31.98	0.00	0.00	0.00	5.26	3.47	0.00	3.47	0.00	1.13	0.08	0.00	1.21	0.00	43.93	0.00	0.	0.00
313	22.750	31.98	0.00	0.00	0.00	5.25	3.45	0.00	3.45	0.00	1.13	0.07	0.00	1.20	0.00	43.72	0.00	0.	0.00
314	22.500	31.98	0.00	0.00	0.00	5.24	3.44	0.00	3.44	0.00	1.12	0.07	0.00	1.20	0.00	43.50	0.00	0.	0.00
315	22.250	31.97	0.00	0.00	0.00	5.23	3.42	0.00	3.42	0.00	1.12	0.07	0.00	1.19	0.00	43.28	0.00	0.	0.00
316	22.000	31.97	0.00	0.00	0.00	5.23	3.41	0.00	3.41	0.00	1.12	0.07	0.00	1.19	0.00	43.07	0.00	0.	0.00
317	21.750	31.97	0.00	0.00	0.00	5.22	3.40	0.00	3.40	0.00	1.11	0.07	0.00	1.18	0.00	42.85	0.00	0.	0.00
318	21.500	31.97	0.00	0.00	0.00	5.21	3.39	0.00	3.39	0.00	1.11	0.07	0.00	1.18	0.00	42.63	0.00	0.	0.00
319	21.250	31.97	0.00	0.00	0.00	5.21	3.38	0.00	3.38	0.00	1.10	0.07	0.00	1.17	0.00	42.42	0.00	0.	0.00
320	21.000	31.97	0.00	0.00	0.00	5.20	3.37	0.00	3.37	0.00	1.10	0.07	0.00	1.17	0.00	42.20	0.00	0.	0.00
321	20.750	31.97	0.00	0.00	0.00	5.19	3.36	0.00	3.36	0.00	1.10	0.07	0.00	1.17	0.00	41.98	0.00	0.	0.00
322	20.500	31.97	0.00	0.00	0.00	5.18	3.36	0.00	3.36	0.00	1.09	0.07	0.00	1.16	0.00	41.77	0.00	0.	0.00
323	20.250	31.97	0.00	0.00	0.00	5.17	3.35	0.00	3.35	0.00	1.09	0.07	0.00	1.16	0.00	41.55	0.00	0.	0.00
324	20.000	31.97	0.00	0.00	0.00	5.17	3.35	0.00	3.35	0.00	1.09	0.07	0.00	1.15	0.00	41.33	0.00	0.	0.00
325	19.750	31.97	0.00	0.00	0.00	5.16	3.34	0.00	3.34	0.00	1.08	0.07	0.00	1.15	0.00	41.12	0.00	0.	0.00
326	19.500	31.97	0.00	0.00	0.00	5.15	3.34	0.00	3.34	0.00	1.08	0.07	0.00	1.15	0.00	40.90	0.00	0.	0.00
327	19.250	31.96	0.00	0.00	0.00	5.14	3.33	0.00	3.33	0.00	1.08	0.07	0.00	1.14	0.00	40.68	0.00	0.	0.00
328	19.000	31.96	0.00	0.00	0.00	5.13	3.33	0.00	3.33	0.00	1.07	0.07	0.00	1.14	0.00	40.47	0.00	0.	0.00
329	18.750	31.96	0.00	0.00	0.00	5.12	3.33	0.00	3.33	0.00	1.07	0.07	0.00	1.14	0.00	40.25	0.00	0.	0.00
330	18.500	31.96	0.00	0.00	0.00	5.11	3.33	0.00	3.33	0.00	1.07	0.07	0.00	1.13	0.00	40.03	0.00	0.	0.00
331	18.250	31.96	0.00	0.00	0.00	5.09	3.35	0.00	3.35	0.00	1.06	0.07	0.00	1.13	0.00	39.82	0.00	0.	0.00
332	18.000	31.96	0.00	0.00	0.00	5.08	3.34	0.00	3.34	0.00	1.06	0.07	0.00	1.13	0.00	39.60	0.00	0.	0.00
333	17.750	31.96	0.00	0.00	0.00	5.07	3.34	0.00	3.34	0.00	1.06	0.07	0.00	1.13	0.00	39.38	0.00	0.	0.00
334	17.500	31.96	0.00	0.00	0.00	5.06	3.34	0.00	3.34	0.00	1.05	0.07	0.00	1.12	0.00	39.17	0.00	0.	0.00

335	17.250	31.96	0.00	0.00	0.00	5.05	3.33	0.00	3.33	0.00	1.05	0.07	0.00	1.12	0.00	38.95	0.00	0.	0.00
336	17.000	31.96	0.00	0.00	0.00	5.04	3.33	0.00	3.33	0.00	1.05	0.07	0.00	1.12	0.00	38.73	0.00	0.	0.00
337	16.750	31.96	0.00	0.00	0.00	5.03	3.33	0.00	3.33	0.00	1.05	0.07	0.00	1.11	0.00	38.52	0.00	0.	0.00
338	16.500	31.95	0.00	0.00	0.00	5.02	3.33	0.00	3.33	0.00	1.04	0.07	0.00	1.11	0.00	38.30	0.00	0.	0.00
339	16.250	31.95	0.00	0.00	0.00	5.00	3.36	0.00	3.36	0.00	1.04	0.07	0.00	1.11	0.00	38.08	0.00	0.	0.00
340	16.000	31.95	0.00	0.00	0.00	4.99	3.35	0.00	3.35	0.00	1.04	0.07	0.00	1.11	0.00	37.87	0.00	0.	0.00
341	15.750	31.95	0.00	0.00	0.00	4.97	3.35	0.00	3.35	0.00	1.04	0.07	0.00	1.10	0.00	37.65	0.00	0.	0.00
342	15.500	31.95	0.00	0.00	0.00	4.96	3.34	0.00	3.34	0.00	1.03	0.07	0.00	1.10	0.00	37.43	0.00	0.	0.00
343	15.250	31.95	0.00	0.00	0.00	4.95	3.34	0.00	3.34	0.00	1.03	0.07	0.00	1.10	0.00	37.22	0.00	0.	0.00
344	15.000	31.95	0.00	0.00	0.00	4.94	3.34	0.00	3.34	0.00	1.03	0.07	0.00	1.10	0.00	37.00	0.00	0.	0.00
345	14.750	31.95	0.00	0.00	0.00	4.93	3.33	0.00	3.33	0.00	1.03	0.07	0.00	1.09	0.00	36.78	0.00	0.	0.00
346	14.500	31.95	0.00	0.00	0.00	4.92	3.33	0.00	3.33	0.00	1.02	0.07	0.00	1.09	0.00	36.57	0.00	0.	0.00
347	14.250	31.95	0.00	0.00	0.00	4.90	3.33	0.00	3.33	0.00	1.02	0.07	0.00	1.09	0.00	36.35	0.00	0.	0.00
348	14.000	31.95	0.00	0.00	0.00	4.89	3.33	0.00	3.33	0.00	1.02	0.07	0.00	1.09	0.00	36.13	0.00	0.	0.00
349	13.750	31.95	0.00	0.00	0.00	4.88	3.33	0.00	3.33	0.00	1.02	0.07	0.00	1.08	0.00	35.92	0.00	0.	0.00
350	13.500	31.94	0.00	0.00	0.00	4.87	3.32	0.00	3.32	0.00	1.02	0.07	0.00	1.08	0.00	35.70	0.00	0.	0.00
351	13.250	31.94	0.00	0.00	0.00	4.86	3.32	0.00	3.32	0.00	1.01	0.07	0.00	1.08	0.00	35.48	0.00	0.	0.00
352	13.000	31.94	0.00	0.00	0.00	4.68	3.68	0.00	3.68	0.00	1.02	0.38	0.00	1.40	0.00	35.27	0.00	0.	0.00
353	12.750	31.94	0.00	0.00	0.00	4.55	3.64	0.00	3.64	0.00	1.02	0.34	0.00	1.36	0.00	35.05	0.00	0.	0.00
354	12.500	31.94	0.00	0.00	0.00	4.46	3.61	0.00	3.61	0.00	1.01	0.31	0.00	1.32	0.00	34.83	0.00	0.	0.00
355	12.250	31.94	0.00	0.00	0.00	4.41	3.58	0.00	3.58	0.00	1.01	0.28	0.00	1.29	0.00	34.62	0.00	0.	0.00
356	12.000	31.94	0.00	0.00	0.00	4.37	3.56	0.00	3.56	0.00	1.01	0.25	0.00	1.27	0.00	34.40	0.00	0.	0.00
357	11.750	31.94	0.00	0.00	0.00	4.36	3.54	0.00	3.54	0.00	1.01	0.23	0.00	1.24	0.00	34.18	0.00	0.	0.00
358	11.500	31.94	0.00	0.00	0.00	4.35	3.51	0.00	3.51	0.00	1.01	0.21	0.00	1.22	0.00	33.97	0.00	0.	0.00
359	11.250	31.94	0.00	0.00	0.00	4.35	3.50	0.00	3.50	0.00	1.01	0.20	0.00	1.20	0.00	33.75	0.00	0.	0.00
360	11.000	31.94	0.00	0.00	0.00	4.36	3.48	0.00	3.48	0.00	1.00	0.18	0.00	1.18	0.00	33.53	0.00	0.	0.00
361	10.750	31.94	0.00	0.00	0.00	4.37	3.46	0.00	3.46	0.00	1.00	0.17	0.00	1.17	0.00	33.32	0.00	0.	0.00
362	10.500	31.93	0.00	0.00	0.00	4.38	3.45	0.00	3.45	0.00	1.00	0.15	0.00	1.15	0.00	33.10	0.00	0.	0.00
363	10.250	31.93	0.00	0.00	0.00	4.40	3.44	0.00	3.44	0.00	1.00	0.14	0.00	1.14	0.00	32.88	0.00	0.	0.00
364	10.000	31.93	0.00	0.00	0.00	4.41	3.43	0.00	3.43	0.00	1.00	0.14	0.00	1.13	0.00	32.67	0.00	0.	0.00
365	9.750	31.93	0.00	0.00	0.00	4.42	3.42	0.00	3.42	0.00	0.99	0.13	0.00	1.12	0.00	32.45	0.00	0.	0.00
366	9.500	31.93	0.00	0.00	0.00	4.43	3.41	0.00	3.41	0.00	0.99	0.12	0.00	1.11	0.00	32.23	0.00	0.	0.00
367	9.250	31.93	0.00	0.00	0.00	4.44	3.40	0.00	3.40	0.00	0.99	0.11	0.00	1.11	0.00	32.02	0.00	0.	0.00
368	9.000	31.93	0.00	0.00	0.00	4.45	3.39	0.00	3.39	0.00	0.99	0.11	0.00	1.10	0.00	31.80	0.00	0.	0.00
369	8.750	31.93	0.00	0.00	0.00	4.45	3.42	0.00	3.42	0.00	0.99	0.11	0.00	1.10	0.00	31.58	0.00	0.	0.00
370	8.500	31.93	0.00	0.00	0.00	4.46	3.41	0.00	3.41	0.00	0.99	0.10	0.00	1.09	0.00	31.37	0.00	0.	0.00
371	8.250	31.93	0.00	0.00	0.00	4.46	3.40	0.00	3.40	0.00	0.99	0.10	0.00	1.09	0.00	31.15	0.00	0.	0.00
372	8.000	31.93	0.00	0.00	0.00	4.46	3.39	0.00	3.39	0.00	0.99	0.10	0.00	1.08	0.00	30.93	0.00	0.	0.00
373	7.750	31.93	0.00	0.00	0.00	7.67	5.61	0.00	5.61	0.00	1.23	0.10	0.00	1.33	0.00	30.72	0.00	0.	0.00
374	7.500	31.92	0.00	0.00	0.00	7.33	5.53	0.00	5.53	0.00	1.23	0.10	0.00	1.33	0.00	30.50	0.00	0.	0.00
375	7.250	31.92	0.00	0.00	0.00	7.02	5.45	0.00	5.45	0.00	1.23	0.09	0.00	1.33	0.00	30.28	0.00	0.	0.00
376	7.000	31.92	0.00	0.00	0.00	6.74	5.37	0.00	5.37	0.00	1.23	0.09	0.00	1.32	0.00	30.07	0.00	0.	0.00
377	6.750	31.92	0.00	0.00	0.00	6.48	5.30	0.00	5.30	0.00	1.23	0.09	0.00	1.32	0.00	29.85	0.00	0.	0.00
378	6.500	31.92	0.00	0.00	0.00	6.25	5.23	0.00	5.23	0.00	1.23	0.09	0.00	1.32	0.00	29.63	0.00	0.	0.00
379	6.250	31.92	0.00	0.00	0.00	6.03	5.16	0.00	5.16	0.00	1.22	0.09	0.00	1.31	0.00	29.42	0.00	0.	0.00
380	6.000	31.92	0.00	0.00	0.00	5.84	5.10	0.00	5.10	0.00	1.22	0.09	0.00	1.31	0.00	29.20	0.00	0.	0.00
381	5.750	31.92	0.00	0.00	0.00	5.66	5.03	0.00	5.03	0.00	1.22	0.09	0.00	1.31	0.00	28.98	0.00	0.	0.00
382	5.500	31.92	0.00	0.00	0.00	5.50	4.97	0.00	4.97	0.00	1.22	0.09	0.00	1.31	0.00	28.77	0.00	0.	0.00
383	5.250	31.92	0.00	0.00	0.00	5.36	4.91	0.00	4.91	0.00	1.22	0.09	0.00	1.30	0.00	28.55	0.00	0.	0.00
384	5.000	31.92	0.00	0.00	0.00	5.23	4.86	0.00	4.86	0.00	1.22	0.09	0.00	1.30	0.00	28.33	0.00	0.	0.00

385	4.750	31.92	0.00	0.00	0.00	5.11	4.80	0.00	4.80	0.00	1.21	0.09	0.00	1.30	0.00	28.12	0.00	0.	0.00
386	4.500	31.91	0.00	0.00	0.00	5.00	4.75	0.00	4.75	0.00	1.21	0.09	0.00	1.30	0.00	27.90	0.00	0.	0.00
387	4.250	31.91	0.00	0.00	0.00	4.90	4.70	0.00	4.70	0.00	1.21	0.09	0.00	1.30	0.00	27.68	0.00	0.	0.00
388	4.000	31.91	0.00	0.00	0.00	4.81	4.65	0.00	4.65	0.00	1.21	0.09	0.00	1.29	0.00	27.47	0.00	0.	0.00
389	3.750	31.91	0.00	0.00	0.00	4.73	4.61	0.00	4.61	0.00	1.21	0.08	0.00	1.29	0.00	27.25	0.00	0.	0.00
390	3.500	31.91	0.00	0.00	0.00	4.65	4.56	0.00	4.56	0.00	1.21	0.08	0.00	1.29	0.00	27.03	0.00	0.	0.00
391	3.250	31.91	0.00	0.00	0.00	4.58	4.52	0.00	4.52	0.00	1.20	0.08	0.00	1.29	0.00	26.82	0.00	0.	0.00
392	3.000	31.91	0.00	0.00	0.00	4.52	4.48	0.00	4.48	0.00	1.20	0.08	0.00	1.29	0.00	26.60	0.00	0.	0.00
393	2.750	31.91	0.00	0.00	0.00	4.46	4.44	0.00	4.44	0.00	1.20	0.08	0.00	1.28	0.00	26.38	0.00	0.	0.00
394	2.500	31.91	0.00	0.00	0.00	4.41	4.40	0.00	4.40	0.00	1.20	0.08	0.00	1.28	0.00	26.17	0.00	0.	0.00
395	2.250	31.91	0.00	0.00	0.00	4.36	4.36	0.00	4.36	0.00	1.20	0.08	0.00	1.28	0.00	25.95	0.00	0.	0.00
396	2.000	31.91	0.00	0.00	0.00	4.32	4.33	0.00	4.33	0.00	1.20	0.08	0.00	1.28	0.00	25.73	0.00	0.	0.00
397	1.750	31.91	0.00	0.00	0.00	4.28	4.29	0.00	4.29	0.00	1.20	0.08	0.00	1.28	0.00	25.52	0.00	0.	0.00
398	1.500	31.90	0.00	0.00	0.00	4.25	4.26	0.00	4.26	0.00	1.19	0.08	0.00	1.28	0.00	25.30	0.00	0.	0.00
399	1.250	31.90	0.00	0.00	0.00	4.21	4.23	0.00	4.23	0.00	1.19	0.08	0.00	1.27	0.00	25.08	0.00	0.	0.00
400	1.000	31.90	0.00	0.00	0.00	4.18	4.19	0.00	4.19	0.00	1.19	0.08	0.00	1.27	0.00	24.87	0.00	0.	0.00
401	0.750	31.90	0.00	0.00	0.00	3.06	7.20	0.00	7.20	0.00	1.45	0.12	0.00	1.56	0.00	24.65	0.00	0.	0.00
402	0.500	31.90	0.00	0.00	0.00	3.04	7.15	0.00	7.15	0.00	1.45	0.12	0.00	1.56	0.00	24.43	0.00	0.	0.00
403	0.250	31.90	0.00	0.00	0.00	3.03	7.10	0.00	7.10	0.00	1.45	0.12	0.00	1.56	0.00	24.22	0.00	0.	0.00
404	0.000	31.90	0.00	0.00	0.00	3.02	7.04	0.00	7.04	0.00	1.44	0.12	0.00	1.56	0.00	24.00	0.00	0.	0.00

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

TRAVEL TIME = 1678.12 DAYS

MAXIMUM EFFLUENT = 83.09 PERCENT

FLOW = 0.01100 TO 2.22057 m^3/s
DISPERSION = 0.0000 TO 0.0000 m^2/s
VELOCITY = 0.00001 TO 0.06141 m/s
DEPTH = 1.16 TO 4.57 m
WIDTH = 31.17 TO 196.71 m

BOD DECAY = 0.26 TO 0.29 per day
NH3 DECAY = 0.36 TO 0.45 per day
SOD = 1.49 TO 2.77 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.19 TO 0.75 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.03 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 31.90 TO 32.10 deg C
DISSOLVED OXYGEN = 3.02 TO 10.89 mg/L

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

REACH SUMMARY REPORT FOR ICWW

RCH NO.	REACH NAME	DIST km	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	Gulf ICWW	94.00	84.50	9.50	289.87	1.25500	0.00038	9.300	182.49	44.314	0.001	30.513	598.75	
2	Gulf ICWW	84.50	71.50	13.00	23.52	15.09647	0.00640	13.350	209.06	533.056	0.021	43.801	685.93	
3	Gulf ICWW	71.50	62.00	9.50	30.46	31.01032	0.00361	12.770	395.30	1094.974	0.012	41.898	1296.98	
4	Gulf ICWW	62.00	38.00	24.00	20.61	12.72698	0.01348	12.190	190.00	449.390	0.044	39.995	623.39	
8	Gulf ICWW	38.00	0.00	38.00	46.13	23.55826	0.00953	12.800	155.80	831.842	0.031	41.997	511.18	

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

REACH SUMMARY REPORT FOR Bayou Black

RCH NO.	REACH NAME	DIST km	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
5	Bayou Black	45.00	38.75	6.25	1616.76	0.10700	0.00004	4.570	196.71	3.778	0.000	14.994	645.41	
6	Bayou Black	38.75	30.00	8.75	23.89	0.20868	0.00424	1.160	31.17	7.368	0.014	3.806	102.27	
7	Bayou Black	30.00	0.00	30.00	37.47	2.22057	0.00927	1.160	31.17	78.408	0.030	3.806	102.27	

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	INCR IN	NONP IN	WSLD OUT	WITH IN	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
1	148.	0.	-154.	0.	0.	0.	16.	0.	0.	0.	0.	42.	-272.	-58.	0.	0.	-92.	0.	0.	0.	369.	0.	0.	-575.7	575.7	0.02
2	154.	0.	-172.	0.	0.	0.	16.	0.	0.	0.	0.	36.	-251.	-59.	0.	0.	-93.	0.	0.	0.	370.	0.	0.	-575.8	575.8	0.01
3	172.	0.	-190.	0.	0.	0.	16.	0.	0.	0.	0.	32.	-248.	-60.	0.	0.	-93.	0.	0.	0.	370.	0.	0.	-590.4	590.4	0.00
4	190.	0.	-207.	0.	0.	0.	16.	0.	0.	0.	0.	29.	-247.	-60.	0.	0.	-93.	0.	0.	0.	370.	0.	0.	-606.6	606.6	0.00
5	207.	0.	-223.	0.	0.	0.	16.	0.	0.	0.	0.	28.	-247.	-60.	0.	0.	-93.	0.	0.	0.	371.	0.	0.	-622.5	622.5	-0.01
6	223.	0.	-238.	0.	0.	0.	16.	0.	0.	0.	0.	28.	-247.	-60.	0.	0.	-93.	0.	0.	0.	371.	0.	0.	-638.2	638.2	-0.01
7	238.	0.	-254.	0.	0.	0.	16.	0.	0.	0.	0.	28.	-247.	-60.	0.	0.	-93.	0.	0.	0.	372.	0.	0.	-653.8	653.8	-0.01
8	254.	0.	-269.	0.	0.	0.	16.	0.	0.	0.	0.	27.	-247.	-60.	0.	0.	-93.	0.	0.	0.	372.	0.	0.	-669.3	669.3	-0.01
9	269.	0.	-284.	0.	0.	0.	16.	0.	0.	0.	0.	27.	-247.	-60.	0.	0.	-93.	0.	0.	0.	372.	0.	0.	-684.8	684.8	-0.01
10	284.	0.	-300.	0.	0.	0.	16.	0.	0.	0.	0.	27.	-247.	-60.	0.	0.	-94.	0.	0.	0.	373.	0.	0.	-700.3	700.3	-0.02
11	300.	0.	-315.	0.	0.	0.	16.	0.	0.	0.	0.	27.	-247.	-60.	0.	0.	-94.	0.	0.	0.	373.	0.	0.	-715.8	715.8	-0.02
12	315.	0.	-331.	0.	0.	0.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-94.	0.	0.	0.	373.	0.	0.	-731.3	731.3	-0.02
13	331.	0.	-346.	0.	0.	0.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-94.	0.	0.	0.	374.	0.	0.	-746.9	746.8	-0.02
14	346.	0.	-361.	0.	0.	0.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-94.	0.	0.	0.	374.	0.	0.	-762.4	762.4	-0.02
15	361.	0.	-377.	0.	0.	0.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-94.	0.	0.	0.	374.	0.	0.	-778.0	777.9	-0.03
16	377.	0.	-392.	0.	0.	0.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-94.	0.	0.	0.	375.	0.	0.	-793.5	793.5	-0.03
17	392.	0.	-408.	0.	0.	0.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-94.	0.	0.	0.	375.	0.	0.	-809.1	809.1	-0.03
18	408.	0.	-423.	0.	0.	0.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-95.	0.	0.	0.	376.	0.	0.	-824.7	824.7	-0.03

19	423.	0.	-438.	0.	0.	0.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-95.	0.	0.	0.	376.	0.	0.	-840.3	840.3	-0.03
20	438.	0.	-454.	0.	0.	0.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-95.	0.	0.	0.	376.	0.	0.	-855.9	855.9	-0.04
21	454.	0.	-469.	0.	0.	0.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-95.	0.	0.	0.	377.	0.	0.	-871.6	871.5	-0.04
22	469.	0.	-485.	0.	0.	0.	16.	0.	0.	0.	0.	24.	-247.	-60.	0.	0.	-95.	0.	0.	0.	377.	0.	0.	-887.2	887.2	-0.04
23	485.	0.	-500.	0.	0.	0.	16.	0.	0.	0.	0.	24.	-247.	-60.	0.	0.	-95.	0.	0.	0.	377.	0.	0.	-902.9	902.8	-0.04
24	500.	0.	-516.	0.	0.	0.	16.	0.	0.	0.	0.	24.	-247.	-60.	0.	0.	-95.	0.	0.	0.	378.	0.	0.	-918.5	918.5	-0.04
25	516.	0.	-531.	0.	0.	0.	16.	0.	0.	0.	0.	24.	-247.	-60.	0.	0.	-95.	0.	0.	0.	378.	0.	0.	-934.2	934.2	-0.05
26	531.	0.	-547.	0.	0.	0.	16.	0.	0.	0.	0.	24.	-247.	-60.	0.	0.	-96.	0.	0.	0.	378.	0.	0.	-949.9	949.9	-0.05
27	547.	0.	-563.	0.	0.	0.	16.	0.	0.	0.	0.	23.	-247.	-60.	0.	0.	-96.	0.	0.	0.	379.	0.	0.	-965.6	965.6	-0.05
28	563.	0.	-578.	0.	0.	0.	16.	0.	0.	0.	0.	23.	-247.	-60.	0.	0.	-96.	0.	0.	0.	379.	0.	0.	-981.3	981.3	-0.05
29	578.	0.	-594.	0.	0.	0.	16.	0.	0.	0.	0.	23.	-247.	-60.	0.	0.	-96.	0.	0.	0.	380.	0.	0.	-997.1	997.0	-0.05
30	594.	0.	-609.	0.	0.	0.	16.	0.	0.	0.	0.	23.	-247.	-60.	0.	0.	-96.	0.	0.	0.	380.	0.	0.	-1012.8	1012.8	-0.06
31	609.	0.	-625.	0.	0.	0.	16.	0.	0.	0.	0.	23.	-247.	-60.	0.	0.	-96.	0.	0.	0.	380.	0.	0.	-1028.6	1028.5	-0.06
32	625.	0.	-641.	0.	0.	0.	16.	0.	0.	0.	0.	22.	-247.	-60.	0.	0.	-96.	0.	0.	0.	381.	0.	0.	-1044.4	1044.3	-0.06
33	641.	0.	-656.	0.	0.	0.	16.	0.	0.	0.	0.	22.	-247.	-60.	0.	0.	-96.	0.	0.	0.	381.	0.	0.	-1060.1	1060.1	-0.06
34	656.	0.	-672.	0.	0.	0.	16.	0.	0.	0.	0.	22.	-247.	-60.	0.	0.	-97.	0.	0.	0.	381.	0.	0.	-1076.0	1075.9	-0.07
35	672.	0.	-688.	0.	0.	0.	16.	0.	0.	0.	0.	22.	-247.	-60.	0.	0.	-97.	0.	0.	0.	382.	0.	0.	-1091.8	1091.7	-0.07
36	688.	0.	-703.	0.	0.	0.	16.	0.	0.	0.	0.	21.	-247.	-60.	0.	0.	-97.	0.	0.	0.	382.	0.	0.	-1107.6	1107.5	-0.07
37	703.	0.	-719.	0.	0.	0.	16.	0.	0.	0.	0.	21.	-247.	-60.	0.	0.	-97.	0.	0.	0.	382.	0.	0.	-1123.4	1123.4	-0.07
38	719.	0.	-735.	0.	0.	0.	16.	0.	0.	0.	0.	21.	-247.	-60.	0.	0.	-97.	0.	0.	0.	383.	0.	0.	-1139.3	1139.2	-0.07
39	735.	0.	-18651.	0.	0.	0.	10.	0.	0.	18212.	0.	133.	-876.	-81.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-19718.7	19718.8	0.13
40	18651.	0.	-18375.	0.	0.	0.	10.	0.	0.	0.	0.	136.	-858.	-82.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-19426.1	19426.3	0.15
41	18375.	0.	-18119.	0.	0.	0.	10.	0.	0.	0.	0.	139.	-840.	-83.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-19153.4	19153.6	0.16
42	18119.	0.	-17880.	0.	0.	0.	10.	0.	0.	0.	0.	141.	-823.	-85.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-18899.6	18899.8	0.17
43	17880.	0.	-17660.	0.	0.	0.	10.	0.	0.	0.	0.	144.	-807.	-86.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-18663.9	18664.1	0.18
44	17660.	0.	-17456.	0.	0.	0.	10.	0.	0.	0.	0.	146.	-791.	-87.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-18445.5	18445.7	0.19
45	17456.	0.	-17268.	0.	0.	0.	10.	0.	0.	0.	0.	148.	-777.	-88.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-18243.6	18243.8	0.20
46	17268.	0.	-17095.	0.	0.	0.	10.	0.	0.	0.	0.	150.	-762.	-89.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-18057.4	18057.6	0.21
47	17095.	0.	-16936.	0.	0.	0.	10.	0.	0.	0.	0.	152.	-749.	-90.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17886.2	17886.4	0.22
48	16936.	0.	-16791.	0.	0.	0.	10.	0.	0.	0.	0.	153.	-736.	-91.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17729.3	17729.6	0.22
49	16791.	0.	-16660.	0.	0.	0.	10.	0.	0.	0.	0.	155.	-723.	-92.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17586.1	17586.3	0.23
50	16660.	0.	-16541.	0.	0.	0.	10.	0.	0.	0.	0.	156.	-711.	-93.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17455.9	17456.1	0.23
51	16541.	0.	-16434.	0.	0.	0.	10.	0.	0.	0.	0.	157.	-699.	-94.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17338.1	17338.3	0.24
52	16434.	0.	-16338.	0.	0.	0.	10.	0.	0.	0.	0.	158.	-688.	-95.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17232.1	17232.4	0.25
53	16338.	0.	-16253.	0.	0.	0.	10.	0.	0.	0.	0.	159.	-678.	-95.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17137.4	17137.6	0.25
54	16253.	0.	-16178.	0.	0.	0.	10.	0.	0.	0.	0.	160.	-668.	-96.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17053.4	17053.6	0.26
55	16178.	0.	-16114.	0.	0.	0.	10.	0.	0.	0.	0.	161.	-658.	-97.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-16979.6	16979.9	0.26
56	16114.	0.	-16058.	0.	0.	0.	10.	0.	0.	0.	0.	161.	-648.	-97.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-16915.5	16915.8	0.27
57	16058.	0.	-4206.	0.	0.	0.	10.	0.	0.	0.	******	162.	-639.	-98.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-16860.7	16861.0	0.27
58	4206.	0.	-4188.	0.	0.	0.	10.	0.	0.	0.	0.	163.	-610.	-100.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5009.9	5010.2	0.28
59	4188.	0.	-4193.	0.	0.	0.	10.	0.	0.	0.	0.	163.	-585.	-102.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-4991.7	4992.0	0.28

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
60	4193.	0.	-4218.	0.	0.	0.	10.	0.	0.	0.	0.	162.	-563.	-104.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-4996.2	4996.5	0.28
61	4218.	0.	-4259.	0.	0.	0.	10.	0.	0.	0.	0.	161.	-544.	-105.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5019.5	5019.8	0.27
62	4259.	0.	-4312.	0.	0.	0.	10.	0.	0.	0.	0.	159.	-528.	-106.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5058.3	5058.5	0.26

63	4312.	0.	-4377.	0.	0.	0.	10.	0.	0.	0.	0.	156.	-514.	-107.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5109.6	5109.9	0.25
64	4377.	0.	-4449.	0.	0.	0.	10.	0.	0.	0.	0.	154.	-503.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5171.3	5171.5	0.24
65	4449.	0.	-4529.	0.	0.	0.	10.	0.	0.	0.	0.	151.	-492.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5241.2	5241.4	0.22
66	4529.	0.	-4614.	0.	0.	0.	10.	0.	0.	0.	0.	147.	-484.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5317.6	5317.8	0.20
67	4614.	0.	-4703.	0.	0.	0.	10.	0.	0.	0.	0.	144.	-476.	-109.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5399.3	5399.5	0.19
68	4703.	0.	-4795.	0.	0.	0.	10.	0.	0.	0.	0.	141.	-470.	-109.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5484.9	5485.0	0.17
69	4795.	0.	-4889.	0.	0.	0.	10.	0.	0.	0.	0.	137.	-464.	-109.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5573.5	5573.6	0.15
70	4889.	0.	-4985.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-459.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5664.2	5664.3	0.14
71	4985.	0.	-5081.	0.	0.	0.	10.	0.	0.	0.	0.	130.	-455.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5756.3	5756.5	0.12
72	5081.	0.	-5178.	0.	0.	0.	10.	0.	0.	0.	0.	126.	-452.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5849.4	5849.5	0.11
73	5178.	0.	-5275.	0.	0.	0.	10.	0.	0.	0.	0.	123.	-449.	-107.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-5942.8	5942.9	0.09
74	5275.	0.	-5372.	0.	0.	0.	10.	0.	0.	0.	0.	119.	-446.	-107.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6036.2	6036.3	0.08
75	5372.	0.	-5468.	0.	0.	0.	10.	0.	0.	0.	0.	116.	-444.	-106.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6129.3	6129.3	0.06
76	5468.	0.	-5563.	0.	0.	0.	10.	0.	0.	0.	0.	112.	-442.	-106.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6221.7	6221.7	0.05
77	5563.	0.	-5657.	0.	0.	0.	10.	0.	0.	0.	0.	109.	-440.	-105.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6313.3	6313.3	0.04
78	5657.	0.	-5749.	0.	0.	0.	10.	0.	0.	0.	0.	105.	-439.	-104.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6403.9	6403.9	0.02
79	5749.	0.	-5841.	0.	0.	0.	10.	0.	0.	0.	0.	102.	-437.	-104.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6493.2	6493.3	0.01
80	5841.	0.	-5930.	0.	0.	0.	10.	0.	0.	0.	0.	99.	-436.	-103.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6581.4	6581.4	0.00
81	5930.	0.	-6019.	0.	0.	0.	10.	0.	0.	0.	0.	95.	-435.	-102.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6668.1	6668.1	-0.01
82	6019.	0.	-6106.	0.	0.	0.	10.	0.	0.	0.	0.	92.	-434.	-101.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6753.4	6753.4	-0.02
83	6106.	0.	-6191.	0.	0.	0.	10.	0.	0.	0.	0.	89.	-434.	-101.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6837.2	6837.2	-0.03
84	6191.	0.	-6274.	0.	0.	0.	10.	0.	0.	0.	0.	86.	-433.	-100.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6919.5	6919.4	-0.04
85	6274.	0.	-6356.	0.	0.	0.	10.	0.	0.	0.	0.	83.	-433.	-99.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-7000.2	7000.1	-0.05
86	6356.	0.	-6437.	0.	0.	0.	10.	0.	0.	0.	0.	80.	-432.	-99.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-7079.3	7079.3	-0.05
87	6437.	0.	-6515.	0.	0.	0.	10.	0.	0.	0.	0.	78.	-432.	-98.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-7156.9	7156.9	-0.06
88	6515.	0.	-6592.	0.	0.	0.	10.	0.	0.	0.	0.	75.	-432.	-97.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-7233.0	7232.9	-0.07
89	6592.	0.	-7491.	0.	0.	0.	10.	0.	0.	888.	0.	70.	-495.	-96.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-8193.5	8193.4	-0.08
90	7491.	0.	-7510.	0.	0.	0.	10.	0.	0.	0.	0.	70.	-487.	-95.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-8204.0	8204.0	-0.08
91	7510.	0.	-7351.	0.	0.	0.	10.	0.	0.	0.	0.	143.	-863.	-170.	0.	0.	-424.	0.	0.	0.	1144.	0.	0.	-8808.2	8808.1	-0.12
92	7351.	0.	-7217.	0.	0.	0.	10.	0.	0.	0.	0.	153.	-850.	-169.	0.	0.	-424.	0.	0.	0.	1145.	0.	0.	-8658.8	8658.7	-0.10
93	7217.	0.	-7102.	0.	0.	0.	10.	0.	0.	0.	0.	161.	-839.	-168.	0.	0.	-424.	0.	0.	0.	1145.	0.	0.	-8532.5	8532.4	-0.08
94	7102.	0.	-7005.	0.	0.	0.	10.	0.	0.	0.	0.	168.	-830.	-166.	0.	0.	-424.	0.	0.	0.	1145.	0.	0.	-8425.3	8425.2	-0.07
95	7005.	0.	-6921.	0.	0.	0.	10.	0.	0.	0.	0.	174.	-823.	-165.	0.	0.	-424.	0.	0.	0.	1145.	0.	0.	-8333.9	8333.8	-0.06
96	6921.	0.	-6849.	0.	0.	0.	10.	0.	0.	0.	0.	179.	-818.	-165.	0.	0.	-424.	0.	0.	0.	1146.	0.	0.	-8255.6	8255.5	-0.05
97	6849.	0.	-6786.	0.	0.	0.	10.	0.	0.	0.	0.	183.	-814.	-164.	0.	0.	-424.	0.	0.	0.	1146.	0.	0.	-8188.2	8188.2	-0.04
98	6786.	0.	-6732.	0.	0.	0.	10.	0.	0.	0.	0.	187.	-810.	-163.	0.	0.	-425.	0.	0.	0.	1146.	0.	0.	-8130.1	8130.1	-0.03
99	6732.	0.	-6685.	0.	0.	0.	10.	0.	0.	0.	0.	191.	-807.	-163.	0.	0.	-425.	0.	0.	0.	1146.	0.	0.	-8079.8	8079.8	-0.03
100	6685.	0.	-6644.	0.	0.	0.	10.	0.	0.	0.	0.	194.	-805.	-162.	0.	0.	-425.	0.	0.	0.	1147.	0.	0.	-8036.1	8036.1	-0.02
101	6644.	0.	-6608.	0.	0.	0.	10.	0.	0.	0.	0.	197.	-803.	-162.	0.	0.	-425.	0.	0.	0.	1147.	0.	0.	-7998.2	7998.1	-0.02
102	6608.	0.	-6577.	0.	0.	0.	10.	0.	0.	0.	0.	199.	-802.	-161.	0.	0.	-425.	0.	0.	0.	1147.	0.	0.	-7965.1	7965.1	-0.01
103	6577.	0.	-6550.	0.	0.	0.	10.	0.	0.	0.	0.	201.	-801.	-160.	0.	0.	-425.	0.	0.	0.	1148.	0.	0.	-7936.3	7936.3	-0.01
104	6550.	0.	-6526.	0.	0.	0.	10.	0.	0.	0.	0.	203.	-800.	-160.	0.	0.	-425.	0.	0.	0.	1148.	0.	0.	-7911.2	7911.2	-0.01
105	6526.	0.	-6505.	0.	0.	0.	10.	0.	0.	0.	0.	205.	-799.	-160.	0.	0.	-426.	0.	0.	0.	1148.	0.	0.	-7889.5	7889.4	-0.01
106	6505.	0.	-6487.	0.	0.	0.	10.	0.	0.	0.	0.	207.	-799.	-159.	0.	0.	-426.	0.	0.	0.	1148.	0.	0.	-7870.6	7870.6	0.00
107	6487.	0.	-6472.	0.	0.	0.	10.	0.	0.	0.	0.	208.	-798.	-159.	0.	0.	-426.	0.	0.	0.	1149.	0.	0.	-7854.3	7854.3	0.00
108	6472.	0.	-6458.	0.	0.	0.	10.	0.	0.	0.	0.	209.	-798.	-158.	0.	0.	-426.	0.	0.	0.	1149.	0.	0.	-7840.3	7840.3	0.00
109	6458.	0.	-6447.	0.	0.	0.	10.	0.	0.	0.	0.	211.	-797.	-158.	0.	0.	-426.	0.	0.	0.	1149.	0.	0.	-7828.3	7828.3	0.00
110	6447.	0.	-6437.	0.	0.	0.	10.	0.	0.	0.	0.	212.	-797.	-157.	0.	0.	-426.	0.	0.	0.	1150.	0.	0.	-7818.3	7818.3	0.00
111	6437.	0.	-6429.	0.	0.	0.	10.	0.	0.	0.	0.	213.	-797.	-157.	0.	0.	-426.	0.	0.	0.	1150.	0.	0.	-7809.9	7809.9	0.00
112	6429.	0.	-6423.	0.	0.	0.	10.	0.	0.	0.	0.	213.	-797.	-157.	0.	0.	-427.	0.	0.	0.	1150.	0.	0.	-7803.1	7803.1	0.00

113	6423.	0.	-6418.	0.	0.	0.	10.	0.	0.	0.	0.	214.	-797.	-156.	0.	0.	-427.	0.	0.	0.	1150.	0.	0.	-7797.7	7797.7	0.00
114	6418.	0.	-6414.	0.	0.	0.	10.	0.	0.	0.	0.	215.	-797.	-156.	0.	0.	-427.	0.	0.	0.	1151.	0.	0.	-7793.6	7793.6	-0.01
115	6414.	0.	-6411.	0.	0.	0.	10.	0.	0.	0.	0.	215.	-797.	-156.	0.	0.	-427.	0.	0.	0.	1151.	0.	0.	-7790.7	7790.6	-0.01
116	6411.	0.	-6410.	0.	0.	0.	10.	0.	0.	0.	0.	216.	-797.	-155.	0.	0.	-427.	0.	0.	0.	1151.	0.	0.	-7788.8	7788.8	-0.01
117	6410.	0.	-14510.	0.	0.	0.	10.	0.	0.	8718.	0.	158.	-1353.	-158.	0.	0.	-427.	0.	0.	0.	1151.	0.	0.	-16448.1	16447.9	-0.15
118	14510.	0.	-13970.	0.	0.	0.	10.	0.	0.	0.	0.	176.	-1292.	-158.	0.	0.	-427.	0.	0.	0.	1152.	0.	0.	-15847.7	15847.6	-0.12

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
119	13970.	0.	-13501.	0.	0.	0.	10.	0.	0.	0.	0.	191.	-1237.	-159.	0.	0.	-428.	0.	0.	0.	1152.	0.	0.	-15323.8	15323.8	-0.08
120	13501.	0.	-13093.	0.	0.	0.	10.	0.	0.	0.	0.	205.	-1188.	-160.	0.	0.	-428.	0.	0.	0.	1152.	0.	0.	-14867.8	14867.7	-0.05
121	13093.	0.	-12739.	0.	0.	0.	10.	0.	0.	0.	0.	216.	-1144.	-160.	0.	0.	-428.	0.	0.	0.	1153.	0.	0.	-14471.6	14471.6	-0.02
122	12739.	0.	-12434.	0.	0.	0.	10.	0.	0.	0.	0.	226.	-1106.	-161.	0.	0.	-428.	0.	0.	0.	1153.	0.	0.	-14128.5	14128.5	0.00
123	12434.	0.	-12171.	0.	0.	0.	10.	0.	0.	0.	0.	235.	-1072.	-161.	0.	0.	-428.	0.	0.	0.	1153.	0.	0.	-13832.1	13832.1	0.03
124	12171.	0.	-11946.	0.	0.	0.	10.	0.	0.	0.	0.	242.	-1041.	-162.	0.	0.	-428.	0.	0.	0.	1153.	0.	0.	-13577.1	13577.1	0.05
125	11946.	0.	-11754.	0.	0.	0.	10.	0.	0.	0.	0.	249.	-1014.	-162.	0.	0.	-428.	0.	0.	0.	1154.	0.	0.	-13358.6	13358.6	0.07
126	11754.	0.	-11591.	0.	0.	0.	10.	0.	0.	0.	0.	254.	-990.	-163.	0.	0.	-429.	0.	0.	0.	1154.	0.	0.	-13172.2	13172.3	0.08
127	11591.	0.	-11454.	0.	0.	0.	10.	0.	0.	0.	0.	259.	-969.	-163.	0.	0.	-429.	0.	0.	0.	1154.	0.	0.	-13014.2	13014.3	0.09
128	11454.	0.	-11339.	0.	0.	0.	10.	0.	0.	0.	0.	263.	-950.	-163.	0.	0.	-429.	0.	0.	0.	1155.	0.	0.	-12881.3	12881.4	0.11
129	11339.	0.	-11275.	0.	0.	0.	10.	0.	0.	0.	0.	127.	-431.	-75.	0.	0.	-227.	0.	0.	0.	531.	0.	0.	-12007.7	12007.7	0.05
130	11275.	0.	-11217.	0.	0.	0.	10.	0.	0.	0.	0.	128.	-426.	-75.	0.	0.	-227.	0.	0.	0.	532.	0.	0.	-11945.3	11945.4	0.05
131	11217.	0.	-11166.	0.	0.	0.	10.	0.	0.	0.	0.	129.	-422.	-75.	0.	0.	-227.	0.	0.	0.	533.	0.	0.	-11889.4	11889.5	0.06
132	11166.	0.	-11120.	0.	0.	0.	10.	0.	0.	0.	0.	130.	-418.	-75.	0.	0.	-226.	0.	0.	0.	534.	0.	0.	-11839.6	11839.7	0.06
133	11120.	0.	-11080.	0.	0.	0.	10.	0.	0.	0.	0.	131.	-414.	-75.	0.	0.	-226.	0.	0.	0.	535.	0.	0.	-11795.6	11795.7	0.06
134	11080.	0.	-11045.	0.	0.	0.	10.	0.	0.	0.	0.	131.	-411.	-75.	0.	0.	-226.	0.	0.	0.	536.	0.	0.	-11757.0	11757.1	0.06
135	11045.	0.	-11015.	0.	0.	0.	10.	0.	0.	0.	0.	132.	-408.	-75.	0.	0.	-226.	0.	0.	0.	537.	0.	0.	-11723.6	11723.7	0.06
136	11015.	0.	-10989.	0.	0.	0.	10.	0.	0.	0.	0.	133.	-404.	-75.	0.	0.	-226.	0.	0.	0.	538.	0.	0.	-11695.1	11695.2	0.07
137	10989.	0.	-10969.	0.	0.	0.	10.	0.	0.	0.	0.	133.	-401.	-75.	0.	0.	-226.	0.	0.	0.	539.	0.	0.	-11671.2	11671.3	0.07
138	10969.	0.	-10952.	0.	0.	0.	10.	0.	0.	0.	0.	133.	-398.	-75.	0.	0.	-226.	0.	0.	0.	540.	0.	0.	-11651.8	11651.8	0.07
139	10952.	0.	-10939.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-396.	-75.	0.	0.	-226.	0.	0.	0.	541.	0.	0.	-11636.5	11636.5	0.07
140	10939.	0.	-10931.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-393.	-75.	0.	0.	-226.	0.	0.	0.	542.	0.	0.	-11625.1	11625.2	0.07
141	10931.	0.	-10925.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-391.	-75.	0.	0.	-226.	0.	0.	0.	543.	0.	0.	-11617.5	11617.6	0.07
142	10925.	0.	-10924.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-389.	-75.	0.	0.	-226.	0.	0.	0.	544.	0.	0.	-11613.5	11613.6	0.07
143	10924.	0.	-10925.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-386.	-75.	0.	0.	-226.	0.	0.	0.	545.	0.	0.	-11612.8	11612.9	0.07
144	10925.	0.	-10930.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-384.	-75.	0.	0.	-226.	0.	0.	0.	546.	0.	0.	-11615.4	11615.5	0.07
145	10930.	0.	-10937.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-382.	-75.	0.	0.	-226.	0.	0.	0.	547.	0.	0.	-11621.0	11621.0	0.07
146	10937.	0.	-10948.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-381.	-75.	0.	0.	-226.	0.	0.	0.	548.	0.	0.	-11629.4	11629.5	0.07
147	10948.	0.	-10961.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-379.	-75.	0.	0.	-226.	0.	0.	0.	549.	0.	0.	-11640.7	11640.7	0.07
148	10961.	0.	-10976.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-377.	-75.	0.	0.	-226.	0.	0.	0.	550.	0.	0.	-11654.5	11654.5	0.07
149	10976.	0.	-10994.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-376.	-76.	0.	0.	-225.	0.	0.	0.	551.	0.	0.	-11670.8	11670.8	0.06
150	10994.	0.	-11014.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-374.	-76.	0.	0.	-225.	0.	0.	0.	552.	0.	0.	-11689.4	11689.5	0.06
151	11014.	0.	-11036.	0.	0.	0.	10.	0.	0.	0.	0.	133.	-373.	-76.	0.	0.	-225.	0.	0.	0.	553.	0.	0.	-11710.3	11710.4	0.06
152	11036.	0.	-11061.	0.	0.	0.	10.	0.	0.	0.	0.	133.	-372.	-76.	0.	0.	-225.	0.	0.	0.	554.	0.	0.	-11733.3	11733.4	0.06
153	11061.	0.	-11087.	0.	0.	0.	10.	0.	0.	0.	0.	133.	-370.	-76.	0.	0.	-225.	0.	0.	0.	555.	0.	0.	-11758.4	11758.4	0.06
154	11087.	0.	-11115.	0.	0.	0.	10.	0.	0.	0.	0.	132.	-369.	-76.	0.	0.	-225.	0.	0.	0.	556.	0.	0.	-11785.3	11785.4	0.06
155	11115.	0.	-11145.	0.	0.	0.	10.	0.	0.	0.	0.	132.	-368.	-76.	0.	0.	-225.	0.	0.	0.	557.	0.	0.	-11814.1	11814.2	0.06
156	11145.	0.	-11177.	0.	0.	0.	10.	0.	0.	0.	0.	132.	-367.	-76.	0.	0.	-225.	0.	0.	0.	558.	0.	0.	-11844.7	11844.8	0.05

157	11177.	0.	-11210.	0.	0.	0.	10.	0.	0.	0.	0.	131.	-366.	-76.	0.	0.	-225.	0.	0.	0.	559.	0.	0.	-11876.9	11877.0	0.05
158	11210.	0.	-11245.	0.	0.	0.	10.	0.	0.	0.	0.	131.	-365.	-76.	0.	0.	-225.	0.	0.	0.	560.	0.	0.	-11910.7	11910.8	0.05
159	11245.	0.	-11281.	0.	0.	0.	10.	0.	0.	0.	0.	130.	-364.	-76.	0.	0.	-225.	0.	0.	0.	561.	0.	0.	-11946.1	11946.1	0.05
160	11281.	0.	-11319.	0.	0.	0.	10.	0.	0.	0.	0.	130.	-363.	-76.	0.	0.	-225.	0.	0.	0.	562.	0.	0.	-11982.9	11982.9	0.05
161	11319.	0.	-11358.	0.	0.	0.	10.	0.	0.	0.	0.	129.	-363.	-76.	0.	0.	-225.	0.	0.	0.	563.	0.	0.	-12021.0	12021.1	0.04
162	11358.	0.	-11398.	0.	0.	0.	10.	0.	0.	0.	0.	129.	-362.	-76.	0.	0.	-225.	0.	0.	0.	564.	0.	0.	-12060.5	12060.5	0.04
163	11398.	0.	-11440.	0.	0.	0.	10.	0.	0.	0.	0.	128.	-361.	-76.	0.	0.	-225.	0.	0.	0.	565.	0.	0.	-12101.2	12101.3	0.04
164	11440.	0.	-11482.	0.	0.	0.	10.	0.	0.	0.	0.	128.	-361.	-76.	0.	0.	-225.	0.	0.	0.	566.	0.	0.	-12143.2	12143.2	0.04
165	11482.	0.	-11526.	0.	0.	0.	10.	0.	0.	0.	0.	127.	-360.	-76.	0.	0.	-225.	0.	0.	0.	567.	0.	0.	-12186.3	12186.3	0.03
166	11526.	0.	-11571.	0.	0.	0.	10.	0.	0.	0.	0.	127.	-359.	-76.	0.	0.	-224.	0.	0.	0.	568.	0.	0.	-12230.5	12230.5	0.03
167	11571.	0.	-11617.	0.	0.	0.	10.	0.	0.	0.	0.	126.	-359.	-76.	0.	0.	-224.	0.	0.	0.	568.	0.	0.	-12275.8	12275.8	0.03
168	11617.	0.	-11664.	0.	0.	0.	10.	0.	0.	0.	0.	125.	-358.	-76.	0.	0.	-224.	0.	0.	0.	569.	0.	0.	-12322.0	12322.1	0.03
169	11664.	0.	-11711.	0.	0.	0.	10.	0.	0.	0.	0.	125.	-358.	-76.	0.	0.	-224.	0.	0.	0.	570.	0.	0.	-12369.3	12369.3	0.03
170	11711.	0.	-11760.	0.	0.	0.	10.	0.	0.	0.	0.	124.	-357.	-76.	0.	0.	-224.	0.	0.	0.	571.	0.	0.	-12417.4	12417.4	0.02
171	11760.	0.	-11810.	0.	0.	0.	10.	0.	0.	0.	0.	124.	-357.	-76.	0.	0.	-224.	0.	0.	0.	572.	0.	0.	-12466.5	12466.5	0.02
172	11810.	0.	-11860.	0.	0.	0.	10.	0.	0.	0.	0.	123.	-356.	-76.	0.	0.	-224.	0.	0.	0.	573.	0.	0.	-12516.4	12516.4	0.02
173	11860.	0.	-11911.	0.	0.	0.	10.	0.	0.	0.	0.	122.	-356.	-76.	0.	0.	-224.	0.	0.	0.	574.	0.	0.	-12567.1	12567.1	0.01
174	11911.	0.	-11963.	0.	0.	0.	10.	0.	0.	0.	0.	122.	-356.	-76.	0.	0.	-224.	0.	0.	0.	575.	0.	0.	-12618.6	12618.6	0.01
175	11963.	0.	-12016.	0.	0.	0.	10.	0.	0.	0.	0.	121.	-355.	-76.	0.	0.	-224.	0.	0.	0.	576.	0.	0.	-12670.9	12670.9	0.01
176	12016.	0.	-12069.	0.	0.	0.	10.	0.	0.	0.	0.	120.	-355.	-76.	0.	0.	-224.	0.	0.	0.	577.	0.	0.	-12723.9	12723.9	0.01
177	12069.	0.	-12124.	0.	0.	0.	10.	0.	0.	0.	0.	119.	-355.	-76.	0.	0.	-224.	0.	0.	0.	578.	0.	0.	-12777.5	12777.5	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	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
178	12124.	0.	-12178.	0.	0.	0.	10.	0.	0.	0.	0.	119.	-354.	-76.	0.	0.	-224.	0.	0.	0.	579.	0.	0.	-12831.9	12831.9	0.00
179	12178.	0.	-12234.	0.	0.	0.	10.	0.	0.	0.	0.	118.	-354.	-76.	0.	0.	-224.	0.	0.	0.	580.	0.	0.	-12886.9	12886.9	0.00
180	12234.	0.	-12290.	0.	0.	0.	10.	0.	0.	0.	0.	117.	-354.	-76.	0.	0.	-224.	0.	0.	0.	581.	0.	0.	-12942.5	12942.5	0.00
181	12290.	0.	-16016.	0.	0.	0.	10.	0.	0.	4020.	-234.	88.	-440.	-77.	0.	0.	-224.	0.	0.	0.	582.	0.	0.	-16989.8	16989.8	-0.09
182	16016.	0.	-15962.	0.	0.	0.	10.	0.	0.	0.	0.	89.	-435.	-77.	0.	0.	-224.	0.	0.	0.	583.	0.	0.	-16697.9	16697.9	-0.08
183	15962.	0.	-15915.	0.	0.	0.	10.	0.	0.	0.	0.	89.	-431.	-77.	0.	0.	-223.	0.	0.	0.	584.	0.	0.	-16646.4	16646.3	-0.08
184	15915.	0.	-15873.	0.	0.	0.	10.	0.	0.	0.	0.	90.	-427.	-76.	0.	0.	-223.	0.	0.	0.	585.	0.	0.	-16600.7	16600.6	-0.08
185	15873.	0.	-15837.	0.	0.	0.	10.	0.	0.	0.	0.	91.	-424.	-76.	0.	0.	-223.	0.	0.	0.	586.	0.	0.	-16560.6	16560.6	-0.08
186	15837.	0.	-15806.	0.	0.	0.	10.	0.	0.	0.	0.	91.	-420.	-76.	0.	0.	-223.	0.	0.	0.	587.	0.	0.	-16526.0	16525.9	-0.08
187	15806.	0.	-15780.	0.	0.	0.	10.	0.	0.	0.	0.	92.	-417.	-76.	0.	0.	-223.	0.	0.	0.	588.	0.	0.	-16496.4	16496.4	-0.07
188	15780.	0.	-15759.	0.	0.	0.	10.	0.	0.	0.	0.	92.	-414.	-76.	0.	0.	-223.	0.	0.	0.	589.	0.	0.	-16471.8	16471.7	-0.08
189	15759.	0.	-15742.	0.	0.	0.	10.	0.	0.	0.	0.	92.	-411.	-76.	0.	0.	-223.	0.	0.	0.	590.	0.	0.	-16451.8	16451.7	-0.08
190	15742.	0.	-15730.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-408.	-76.	0.	0.	-223.	0.	0.	0.	591.	0.	0.	-16436.2	16436.1	-0.08
191	15730.	0.	-15721.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-405.	-76.	0.	0.	-223.	0.	0.	0.	592.	0.	0.	-16424.9	16424.8	-0.07
192	15721.	0.	-15717.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-402.	-76.	0.	0.	-223.	0.	0.	0.	593.	0.	0.	-16417.6	16417.5	-0.07
193	15717.	0.	-15716.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-400.	-76.	0.	0.	-223.	0.	0.	0.	594.	0.	0.	-16414.1	16414.1	-0.08
194	15716.	0.	-15718.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-397.	-76.	0.	0.	-223.	0.	0.	0.	595.	0.	0.	-16414.4	16414.3	-0.07
195	15718.	0.	-15725.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-395.	-76.	0.	0.	-223.	0.	0.	0.	596.	0.	0.	-16418.1	16418.1	-0.07
196	15725.	0.	-15734.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-393.	-76.	0.	0.	-223.	0.	0.	0.	597.	0.	0.	-16425.2	16425.2	-0.08
197	15734.	0.	-15746.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-391.	-76.	0.	0.	-223.	0.	0.	0.	598.	0.	0.	-16435.6	16435.5	-0.08
198	15746.	0.	-15762.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-389.	-76.	0.	0.	-223.	0.	0.	0.	599.	0.	0.	-16448.9	16448.8	-0.08
199	15762.	0.	-15780.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-387.	-75.	0.	0.	-223.	0.	0.	0.	600.	0.	0.	-16465.2	16465.1	-0.08
200	15780.	0.	-15801.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-385.	-75.	0.	0.	-222.	0.	0.	0.	601.	0.	0.	-16484.2	16484.2	-0.08

201	15801.	0.	-15825.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-383.	-75.	0.	0.	-222.	0.	0.	0.	602.	0.	0.	-16505.9	16505.9	-0.08
202	15825.	0.	-15851.	0.	0.	0.	10.	0.	0.	0.	0.	92.	-382.	-75.	0.	0.	-222.	0.	0.	0.	603.	0.	0.	-16530.2	16530.1	-0.08
203	15851.	0.	-15879.	0.	0.	0.	10.	0.	0.	0.	0.	92.	-380.	-75.	0.	0.	-222.	0.	0.	0.	604.	0.	0.	-16556.9	16556.8	-0.08
204	15879.	0.	-15909.	0.	0.	0.	10.	0.	0.	0.	0.	92.	-379.	-75.	0.	0.	-222.	0.	0.	0.	605.	0.	0.	-16585.9	16585.8	-0.08
205	15909.	0.	-15942.	0.	0.	0.	10.	0.	0.	0.	0.	92.	-377.	-75.	0.	0.	-222.	0.	0.	0.	606.	0.	0.	-16617.1	16617.0	-0.08
206	15942.	0.	-15977.	0.	0.	0.	10.	0.	0.	0.	0.	91.	-376.	-75.	0.	0.	-222.	0.	0.	0.	607.	0.	0.	-16650.4	16650.3	-0.08
207	15977.	0.	-16014.	0.	0.	0.	10.	0.	0.	0.	0.	91.	-375.	-75.	0.	0.	-222.	0.	0.	0.	608.	0.	0.	-16685.8	16685.7	-0.08
208	16014.	0.	-16052.	0.	0.	0.	10.	0.	0.	0.	0.	90.	-374.	-75.	0.	0.	-222.	0.	0.	0.	609.	0.	0.	-16723.1	16723.0	-0.08
209	16052.	0.	-16093.	0.	0.	0.	10.	0.	0.	0.	0.	90.	-372.	-75.	0.	0.	-222.	0.	0.	0.	610.	0.	0.	-16762.2	16762.2	-0.09
210	16093.	0.	-16135.	0.	0.	0.	10.	0.	0.	0.	0.	90.	-371.	-75.	0.	0.	-222.	0.	0.	0.	611.	0.	0.	-16803.2	16803.1	-0.09
211	16135.	0.	-16179.	0.	0.	0.	10.	0.	0.	0.	0.	89.	-370.	-75.	0.	0.	-222.	0.	0.	0.	612.	0.	0.	-16845.8	16845.7	-0.09
212	16179.	0.	-16224.	0.	0.	0.	10.	0.	0.	0.	0.	89.	-369.	-75.	0.	0.	-222.	0.	0.	0.	612.	0.	0.	-16890.0	16889.9	-0.09
213	16224.	0.	-16271.	0.	0.	0.	10.	0.	0.	0.	0.	88.	-368.	-75.	0.	0.	-222.	0.	0.	0.	613.	0.	0.	-16935.8	16935.7	-0.09
214	16271.	0.	-16319.	0.	0.	0.	10.	0.	0.	0.	0.	88.	-367.	-75.	0.	0.	-222.	0.	0.	0.	614.	0.	0.	-16983.1	16983.0	-0.10
215	16319.	0.	-16369.	0.	0.	0.	10.	0.	0.	0.	0.	87.	-366.	-75.	0.	0.	-222.	0.	0.	0.	615.	0.	0.	-17031.8	17031.7	-0.10
216	16369.	0.	-16420.	0.	0.	0.	10.	0.	0.	0.	0.	87.	-366.	-75.	0.	0.	-222.	0.	0.	0.	616.	0.	0.	-17081.9	17081.8	-0.10
217	16420.	0.	-16472.	0.	0.	0.	10.	0.	0.	0.	0.	86.	-365.	-75.	0.	0.	-222.	0.	0.	0.	617.	0.	0.	-17133.3	17133.2	-0.10
218	16472.	0.	-16525.	0.	0.	0.	10.	0.	0.	0.	0.	85.	-364.	-75.	0.	0.	-221.	0.	0.	0.	618.	0.	0.	-17185.9	17185.8	-0.10
219	16525.	0.	-16580.	0.	0.	0.	10.	0.	0.	0.	0.	85.	-363.	-75.	0.	0.	-221.	0.	0.	0.	619.	0.	0.	-17239.8	17239.7	-0.10
220	16580.	0.	-16636.	0.	0.	0.	10.	0.	0.	0.	0.	84.	-363.	-75.	0.	0.	-221.	0.	0.	0.	620.	0.	0.	-17294.8	17294.7	-0.11
221	16636.	0.	-5800.	0.	0.	0.	10.	0.	0.	0.******	84.	-362.	-75.	0.	0.	-221.	0.	0.	0.	621.	0.	0.	-17350.9	17350.8	-0.11
222	5800.	0.	-5857.	0.	0.	0.	10.	0.	0.	0.	0.	82.	-361.	-75.	0.	0.	-221.	0.	0.	0.	622.	0.	0.	-6513.9	6513.8	-0.11
223	5857.	0.	-5915.	0.	0.	0.	10.	0.	0.	0.	0.	80.	-359.	-75.	0.	0.	-221.	0.	0.	0.	623.	0.	0.	-6570.6	6570.4	-0.12
224	5915.	0.	-5974.	0.	0.	0.	10.	0.	0.	0.	0.	78.	-358.	-75.	0.	0.	-221.	0.	0.	0.	624.	0.	0.	-6627.7	6627.6	-0.12
405	5974.	579.	-6600.	0.	0.	0.	13.	0.	0.	0.	0.	75.	-407.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7178.4	7178.4	-0.08
406	6600.	0.	-6639.	0.	0.	0.	13.	0.	0.	0.	0.	74.	-415.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7225.4	7225.3	-0.08
407	6639.	0.	-6669.	0.	0.	0.	13.	0.	0.	0.	0.	74.	-423.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7263.2	7263.1	-0.08
408	6669.	0.	-6691.	0.	0.	0.	13.	0.	0.	0.	0.	73.	-430.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7292.9	7292.8	-0.08
409	6691.	0.	-6707.	0.	0.	0.	13.	0.	0.	0.	0.	73.	-436.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7315.3	7315.2	-0.08
410	6707.	0.	-6718.	0.	0.	0.	13.	0.	0.	0.	0.	73.	-442.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7331.4	7331.3	-0.08
411	6718.	0.	-6723.	0.	0.	0.	13.	0.	0.	0.	0.	73.	-447.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7341.8	7341.7	-0.08
412	6723.	0.	-6724.	0.	0.	0.	13.	0.	0.	0.	0.	74.	-452.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7347.2	7347.1	-0.08
413	6724.	0.	-6547.	0.	0.	0.	13.	0.	0.	281.	-404.	83.	-516.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7638.9	7638.9	-0.06
414	6547.	0.	-6496.	0.	0.	0.	13.	0.	0.	0.	0.	85.	-514.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7182.3	7182.2	-0.05
415	6496.	0.	-6448.	0.	0.	0.	13.	0.	0.	0.	0.	86.	-513.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7132.7	7132.7	-0.05
416	6448.	0.	-6402.	0.	0.	0.	13.	0.	0.	0.	0.	88.	-511.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7085.9	7085.8	-0.04

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WSLD OUT	WITH IN	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
417	6402.	0.	-6359.	0.	0.	0.	13.	0.	0.	0.	0.	89.	-510.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7041.5	7041.5	-0.04
418	6359.	0.	-6318.	0.	0.	0.	13.	0.	0.	0.	0.	90.	-509.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6999.6	6999.5	-0.04
419	6318.	0.	-6279.	0.	0.	0.	13.	0.	0.	0.	0.	91.	-508.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6959.8	6959.8	-0.03
420	6279.	0.	-6242.	0.	0.	0.	13.	0.	0.	0.	0.	92.	-507.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6922.2	6922.1	-0.03
421	6242.	0.	-6207.	0.	0.	0.	13.	0.	0.	0.	0.	93.	-507.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6886.4	6886.4	-0.03
422	6207.	0.	-6174.	0.	0.	0.	13.	0.	0.	0.	0.	95.	-506.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6852.5	6852.5	-0.02
423	6174.	0.	-6143.	0.	0.	0.	13.	0.	0.	0.	0.	96.	-505.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6820.3	6820.3	-0.02
424	6143.	0.	-6113.	0.	0.	0.	13.	0.	0.	0.	0.	96.	-505.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6789.8	6789.8	-0.02

425	6113.	0.	-6084.	0.	0.	0.	13.	0.	0.	0.	0.	97.	-504.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6760.7	6760.7	-0.02
426	6084.	0.	-6057.	0.	0.	0.	13.	0.	0.	0.	0.	98.	-504.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6733.1	6733.1	-0.01
427	6057.	0.	-6031.	0.	0.	0.	13.	0.	0.	0.	0.	99.	-503.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6706.8	6706.8	-0.01
428	6031.	0.	-6007.	0.	0.	0.	13.	0.	0.	0.	0.	100.	-503.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6681.8	6681.8	-0.01
429	6007.	0.	-5983.	0.	0.	0.	13.	0.	0.	0.	0.	101.	-503.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6658.0	6658.0	0.00
430	5983.	0.	-5961.	0.	0.	0.	13.	0.	0.	0.	0.	101.	-502.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6635.3	6635.3	0.00
431	5961.	0.	-5940.	0.	0.	0.	13.	0.	0.	0.	0.	102.	-502.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6613.8	6613.8	0.00
432	5940.	0.	-5919.	0.	0.	0.	13.	0.	0.	0.	0.	103.	-502.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6593.2	6593.2	0.00
433	5919.	0.	-5900.	0.	0.	0.	13.	0.	0.	0.	0.	103.	-501.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6573.7	6573.7	0.00
434	5900.	0.	-5882.	0.	0.	0.	13.	0.	0.	0.	0.	104.	-501.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6555.0	6555.0	0.01
435	5882.	0.	-5864.	0.	0.	0.	13.	0.	0.	0.	0.	105.	-501.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6537.3	6537.3	0.01
436	5864.	0.	-5848.	0.	0.	0.	13.	0.	0.	0.	0.	105.	-501.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6520.4	6520.4	0.01
437	5848.	0.	-5832.	0.	0.	0.	13.	0.	0.	0.	0.	106.	-501.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6504.3	6504.3	0.01
438	5832.	0.	-5817.	0.	0.	0.	13.	0.	0.	0.	0.	106.	-500.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6489.0	6489.0	0.01
439	5817.	0.	-5802.	0.	0.	0.	13.	0.	0.	0.	0.	107.	-500.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6474.4	6474.4	0.02
440	5802.	0.	-5789.	0.	0.	0.	13.	0.	0.	0.	0.	108.	-500.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6460.5	6460.5	0.02
441	5789.	0.	-5775.	0.	0.	0.	13.	0.	0.	0.	0.	108.	-500.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6447.3	6447.3	0.02
442	5775.	0.	-5763.	0.	0.	0.	13.	0.	0.	0.	0.	109.	-500.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6434.7	6434.7	0.02
443	5763.	0.	-5751.	0.	0.	0.	13.	0.	0.	0.	0.	109.	-500.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6422.7	6422.8	0.02
444	5751.	0.	-5740.	0.	0.	0.	13.	0.	0.	0.	0.	109.	-500.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6411.4	6411.4	0.03
445	5740.	0.	-5729.	0.	0.	0.	13.	0.	0.	0.	0.	110.	-500.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6400.6	6400.6	0.03
446	5729.	0.	-5719.	0.	0.	0.	13.	0.	0.	0.	0.	110.	-499.	-65.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6390.4	6390.4	0.03
447	5719.	0.	-5710.	0.	0.	0.	13.	0.	0.	0.	0.	111.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6380.7	6380.7	0.03
448	5710.	0.	-5701.	0.	0.	0.	13.	0.	0.	0.	0.	111.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6371.5	6371.5	0.03
449	5701.	0.	-5692.	0.	0.	0.	13.	0.	0.	0.	0.	112.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6362.7	6362.8	0.03
450	5692.	0.	-5684.	0.	0.	0.	13.	0.	0.	0.	0.	112.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6354.5	6354.5	0.03
451	5684.	0.	-5676.	0.	0.	0.	13.	0.	0.	0.	0.	112.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6346.7	6346.8	0.04
452	5676.	0.	-5669.	0.	0.	0.	13.	0.	0.	0.	0.	113.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6339.4	6339.4	0.04
453	5669.	0.	-5662.	0.	0.	0.	13.	0.	0.	0.	0.	113.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6332.5	6332.5	0.04
454	5662.	0.	-5656.	0.	0.	0.	13.	0.	0.	0.	0.	113.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6325.9	6326.0	0.04
455	5656.	0.	-5650.	0.	0.	0.	13.	0.	0.	0.	0.	114.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6319.8	6319.9	0.04
456	5650.	0.	-5644.	0.	0.	0.	13.	0.	0.	0.	0.	114.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6314.1	6314.1	0.04
457	5644.	0.	-5639.	0.	0.	0.	13.	0.	0.	0.	0.	114.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6308.7	6308.8	0.04
458	5639.	0.	-5634.	0.	0.	0.	13.	0.	0.	0.	0.	114.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6303.7	6303.8	0.04
459	5634.	0.	-5629.	0.	0.	0.	13.	0.	0.	0.	0.	115.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6299.0	6299.1	0.05
460	5629.	0.	-5625.	0.	0.	0.	13.	0.	0.	0.	0.	115.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6294.7	6294.8	0.05
461	5625.	0.	-5621.	0.	0.	0.	13.	0.	0.	0.	0.	115.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6290.7	6290.8	0.05
462	5621.	0.	-5617.	0.	0.	0.	13.	0.	0.	0.	0.	116.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6287.0	6287.1	0.05
463	5617.	0.	-5614.	0.	0.	0.	13.	0.	0.	0.	0.	116.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6283.6	6283.7	0.05
464	5614.	0.	-5611.	0.	0.	0.	13.	0.	0.	0.	0.	116.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6280.5	6280.6	0.05
465	5611.	0.	-5608.	0.	0.	0.	13.	0.	0.	0.	0.	116.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6277.7	6277.8	0.05
466	5608.	0.	-5606.	0.	0.	0.	13.	0.	0.	0.	0.	116.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6275.2	6275.2	0.05
467	5606.	0.	-5604.	0.	0.	0.	13.	0.	0.	1.	0.	117.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6274.4	6274.5	0.05
468	5604.	0.	-5601.	0.	0.	0.	13.	0.	0.	0.	0.	117.	-499.	-64.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6271.6	6271.7	0.05
469	5601.	0.	-6684.	0.	0.	0.	13.	0.	0.	1399.	-176.	120.	-641.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7670.4	7670.4	0.06
470	6684.	0.	-6556.	0.	0.	0.	13.	0.	0.	0.	0.	122.	-632.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7356.8	7356.9	0.07
471	6556.	0.	-6441.	0.	0.	0.	13.	0.	0.	0.	0.	124.	-622.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7231.6	7231.7	0.08
472	6441.	0.	-6335.	0.	0.	0.	13.	0.	0.	0.	0.	127.	-614.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7117.8	7117.9	0.09
473	6335.	0.	-6240.	0.	0.	0.	13.	0.	0.	0.	0.	129.	-606.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7014.5	7014.6	0.10
474	6240.	0.	-6154.	0.	0.	0.	13.	0.	0.	0.	0.	130.	-598.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6920.9	6921.0	0.11

475	6154.	0.	-6076.	0.	0.	0.	13.	0.	0.	0.	0.	132.	-592.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6836.3	6836.4	0.12

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR 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
476	6076.	0.	-6006.	0.	0.	0.	13.	0.	0.	0.	0.	133.	-585.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6760.1	6760.2	0.13
477	6006.	0.	-5944.	0.	0.	0.	13.	0.	0.	0.	0.	135.	-579.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6691.5	6691.6	0.13
478	5944.	0.	-5888.	0.	0.	0.	13.	0.	0.	0.	0.	136.	-574.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6630.0	6630.1	0.14
479	5888.	0.	-5838.	0.	0.	0.	13.	0.	0.	0.	0.	137.	-569.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6575.1	6575.2	0.15
480	5838.	0.	-5794.	0.	0.	0.	13.	0.	0.	0.	0.	138.	-564.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6526.2	6526.4	0.15
481	5794.	0.	-5755.	0.	0.	0.	13.	0.	0.	0.	0.	139.	-559.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6482.9	6483.1	0.16
482	5755.	0.	-5721.	0.	0.	0.	13.	0.	0.	0.	0.	140.	-555.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6444.8	6445.0	0.16
483	5721.	0.	-5691.	0.	0.	0.	13.	0.	0.	0.	0.	140.	-551.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6411.5	6411.6	0.16
484	5691.	0.	-5666.	0.	0.	0.	13.	0.	0.	0.	0.	141.	-548.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6382.5	6382.6	0.17
485	5666.	0.	-5644.	0.	0.	0.	13.	0.	0.	0.	0.	141.	-544.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6357.5	6357.7	0.17
486	5644.	0.	-5626.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-541.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6336.3	6336.5	0.17
487	5626.	0.	-5611.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-538.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6318.5	6318.7	0.18
488	5611.	0.	-5599.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-536.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6303.9	6304.1	0.18
489	5599.	0.	-5590.	0.	0.	0.	13.	0.	0.	0.	0.	143.	-533.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6292.2	6292.4	0.18
490	5590.	0.	-5583.	0.	0.	0.	13.	0.	0.	0.	0.	143.	-531.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6283.1	6283.3	0.18
491	5583.	0.	-5578.	0.	0.	0.	13.	0.	0.	0.	0.	143.	-529.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6276.5	6276.7	0.18
492	5578.	0.	-5576.	0.	0.	0.	13.	0.	0.	0.	0.	143.	-527.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6272.2	6272.4	0.18
493	5576.	0.	-5695.	0.	0.	0.	13.	0.	0.	131.	0.	143.	-537.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6400.7	6400.8	0.18
494	5695.	0.	-5685.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-534.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6388.9	6389.1	0.18
495	5685.	0.	-5679.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-532.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6379.9	6380.0	0.19
496	5679.	0.	-5674.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-530.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6373.3	6373.5	0.19
497	5674.	0.	-5672.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-527.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6369.0	6369.2	0.19
498	5672.	0.	-5672.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-526.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6366.8	6367.0	0.19
499	5672.	0.	-5673.	0.	0.	0.	13.	0.	0.	0.	0.	145.	-524.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6366.6	6366.8	0.19
500	5673.	0.	-5676.	0.	0.	0.	13.	0.	0.	0.	0.	145.	-522.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6368.1	6368.3	0.19
501	5676.	0.	-5681.	0.	0.	0.	13.	0.	0.	0.	0.	145.	-521.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6371.3	6371.5	0.19
502	5681.	0.	-5687.	0.	0.	0.	13.	0.	0.	0.	0.	145.	-519.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6375.9	6376.1	0.19
503	5687.	0.	-5694.	0.	0.	0.	13.	0.	0.	0.	0.	145.	-518.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6382.0	6382.1	0.19
504	5694.	0.	-5703.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-517.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6389.2	6389.4	0.19
505	5703.	0.	-5712.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-515.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6397.6	6397.8	0.19
506	5712.	0.	-5723.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-514.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6407.1	6407.3	0.19
507	5723.	0.	-5734.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-513.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6417.5	6417.7	0.19
508	5734.	0.	-5746.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-512.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6428.8	6429.0	0.19
509	5746.	0.	-5759.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-511.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6440.9	6441.0	0.19
510	5759.	0.	-5773.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-511.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6453.6	6453.8	0.19
511	5773.	0.	-5787.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-510.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6467.1	6467.2	0.19
512	5787.	0.	-5802.	0.	0.	0.	13.	0.	0.	0.	0.	144.	-509.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6481.1	6481.3	0.19
513	5802.	0.	-5817.	0.	0.	0.	13.	0.	0.	0.	0.	143.	-508.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6495.6	6495.8	0.18
514	5817.	0.	-5833.	0.	0.	0.	13.	0.	0.	0.	0.	143.	-508.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6510.6	6510.8	0.18
515	5833.	0.	-5849.	0.	0.	0.	13.	0.	0.	0.	0.	143.	-507.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6526.0	6526.2	0.18
516	5849.	0.	-5865.	0.	0.	0.	13.	0.	0.	0.	0.	143.	-507.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6541.9	6542.0	0.18
517	5865.	0.	-5882.	0.	0.	0.	13.	0.	0.	0.	0.	143.	-506.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6558.0	6558.2	0.18
518	5882.	0.	-5898.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-506.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6574.5	6574.6	0.18

519	5898.	0.	-5916.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-505.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6591.2	6591.4	0.18
520	5916.	0.	-5933.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-505.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6608.1	6608.3	0.18
521	5933.	0.	-5950.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-504.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6625.3	6625.4	0.18
522	5950.	0.	-5968.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-504.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6642.6	6642.8	0.17
523	5968.	0.	-5986.	0.	0.	0.	13.	0.	0.	0.	0.	141.	-504.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6660.0	6660.2	0.17
524	5986.	0.	-6004.	0.	0.	0.	13.	0.	0.	0.	0.	141.	-503.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6677.6	6677.8	0.17
525	6004.	0.	-6344.	0.	0.	0.	13.	0.	0.	351.	0.	141.	-533.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7046.8	7047.0	0.17
526	6344.	0.	-6334.	0.	0.	0.	13.	0.	0.	0.	0.	141.	-531.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7035.4	7035.6	0.17
527	6334.	0.	-6327.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-529.	-63.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7026.4	7026.6	0.17
528	6327.	0.	-6323.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-527.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7019.7	7019.9	0.17
529	6323.	0.	-6320.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-526.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7015.0	7015.2	0.18
530	6320.	0.	-6319.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-524.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7012.3	7012.5	0.18
531	6319.	0.	-6319.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-523.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7011.4	7011.5	0.18
532	6319.	0.	-6322.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-521.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7012.1	7012.2	0.18
533	6322.	0.	-6325.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-520.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7014.3	7014.5	0.18
534	6325.	0.	-6330.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-518.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7017.9	7018.1	0.18

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
535	6330.	0.	-6336.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-517.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7022.8	7023.0	0.18
536	6336.	0.	-6343.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-516.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7028.9	7029.1	0.18
537	6343.	0.	-6352.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-515.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7036.2	7036.3	0.18
538	6352.	0.	-6361.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-514.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7044.4	7044.6	0.18
539	6361.	0.	-6371.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-513.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7053.6	7053.7	0.18
540	6371.	0.	-6382.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-512.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7063.6	7063.8	0.18
541	6382.	0.	-6286.	0.	0.	0.	13.	0.	0.	0.	-107.	142.	-511.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7074.4	7074.6	0.17
542	6286.	0.	-6299.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-511.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6978.7	6978.9	0.17
543	6299.	0.	-6312.	0.	0.	0.	13.	0.	0.	0.	0.	142.	-510.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-6990.9	6991.1	0.17
544	6312.	0.	-6325.	0.	0.	0.	13.	0.	0.	0.	0.	141.	-509.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7003.7	7003.9	0.17
545	6325.	0.	-6339.	0.	0.	0.	13.	0.	0.	0.	0.	141.	-509.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7017.1	7017.2	0.17
546	6339.	0.	-6354.	0.	0.	0.	13.	0.	0.	0.	0.	141.	-508.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7030.9	7031.1	0.17
547	6354.	0.	-6369.	0.	0.	0.	13.	0.	0.	0.	0.	141.	-507.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7045.3	7045.4	0.17
548	6369.	0.	-6384.	0.	0.	0.	13.	0.	0.	0.	0.	141.	-507.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7060.0	7060.2	0.17
549	6384.	0.	-6399.	0.	0.	0.	13.	0.	0.	0.	0.	141.	-506.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7075.1	7075.3	0.17
550	6399.	0.	-6415.	0.	0.	0.	13.	0.	0.	0.	0.	141.	-506.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7090.6	7090.7	0.17
551	6415.	0.	-6432.	0.	0.	0.	13.	0.	0.	0.	0.	140.	-505.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7106.3	7106.5	0.17
552	6432.	0.	-6448.	0.	0.	0.	13.	0.	0.	0.	0.	140.	-505.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7122.3	7122.5	0.17
553	6448.	0.	-6465.	0.	0.	0.	13.	0.	0.	0.	0.	140.	-505.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7138.6	7138.7	0.17
554	6465.	0.	-6481.	0.	0.	0.	13.	0.	0.	0.	0.	140.	-504.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7155.0	7155.2	0.16
555	6481.	0.	-6498.	0.	0.	0.	13.	0.	0.	0.	0.	140.	-504.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7171.7	7171.8	0.16
556	6498.	0.	-6516.	0.	0.	0.	13.	0.	0.	0.	0.	139.	-504.	-62.	0.	0.	-107.	0.	0.	0.	537.	0.	0.	-7188.5	7188.6	0.16

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Black

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
225	1.	0.	-10.	0.	0.	0.	2.	0.	0.	0.	0.	-140.	-27.	-7.	0.	0.	-74.	0.	0.	0.	255.	0.	0.	-257.2	257.2	-0.01
226	10.	0.	-14.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-4.	0.	0.	-74.	0.	0.	0.	255.	0.	0.	-266.3	266.3	-0.01
227	14.	0.	-18.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	255.	0.	0.	-270.3	270.3	-0.01
228	18.	0.	-22.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-274.1	274.1	-0.01
229	22.	0.	-25.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-277.8	277.8	-0.01
230	25.	0.	-29.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-281.5	281.5	-0.01
231	29.	0.	-33.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-285.2	285.2	-0.01
232	33.	0.	-37.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-288.9	288.9	-0.01
233	37.	0.	-40.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-292.7	292.7	-0.01
234	40.	0.	-44.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-296.4	296.4	-0.01
235	44.	0.	-48.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-300.1	300.1	-0.01
236	48.	0.	-52.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-303.8	303.8	-0.01
237	52.	0.	-56.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-307.5	307.5	-0.01
238	56.	0.	-59.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-311.2	311.2	0.00
239	59.	0.	-63.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-315.0	315.0	0.00
240	63.	0.	-67.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-318.7	318.7	0.00
241	67.	0.	-71.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-322.4	322.4	0.00
242	71.	0.	-74.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-326.1	326.1	0.00
243	74.	0.	-78.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-329.8	329.8	0.00
244	78.	0.	-82.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-333.6	333.6	0.00
245	82.	0.	-86.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-337.3	337.3	0.00
246	86.	0.	-89.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-341.0	341.0	0.00
247	89.	0.	-93.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-344.7	344.7	0.00
248	93.	0.	-97.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-348.4	348.4	0.00
249	97.	0.	-101.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	253.	0.	0.	-352.1	352.1	0.00
250	101.	0.	-85.	0.	0.	0.	1.	0.	0.	0.	0.	-11.	-4.	0.	0.	0.	-12.	0.	0.	0.	10.	0.	0.	-112.4	112.4	0.00
251	85.	0.	-75.	0.	0.	0.	1.	0.	0.	0.	0.	-3.	-7.	0.	0.	0.	-12.	0.	0.	0.	11.	0.	0.	-97.1	97.1	0.00
252	75.	0.	-69.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-9.	0.	0.	0.	-12.	0.	0.	0.	11.	0.	0.	-90.1	90.1	0.00
253	69.	0.	-66.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-10.	0.	0.	0.	-12.	0.	0.	0.	11.	0.	0.	-88.0	88.0	0.00
254	66.	0.	-63.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-12.	0.	0.	0.	-12.	0.	0.	0.	12.	0.	0.	-87.0	87.0	0.00
255	63.	0.	-62.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-13.	0.	0.	0.	-12.	0.	0.	0.	12.	0.	0.	-86.8	86.8	0.00
256	62.	0.	-62.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-13.	-1.	0.	0.	-12.	0.	0.	0.	12.	0.	0.	-87.1	87.1	0.00
257	62.	0.	-62.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-12.	0.	0.	0.	13.	0.	0.	-87.7	87.7	0.00
258	62.	0.	-62.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-14.	-1.	0.	0.	-12.	0.	0.	0.	13.	0.	0.	-88.6	88.6	0.00
259	62.	0.	-63.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-15.	-1.	0.	0.	-12.	0.	0.	0.	13.	0.	0.	-89.6	89.6	0.00
260	63.	0.	-64.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-15.	-1.	0.	0.	-12.	0.	0.	0.	13.	0.	0.	-90.9	90.9	0.00
261	64.	0.	-65.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-15.	-1.	0.	0.	-12.	0.	0.	0.	14.	0.	0.	-92.2	92.2	0.00
262	65.	0.	-66.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-15.	-1.	0.	0.	-12.	0.	0.	0.	14.	0.	0.	-93.6	93.6	0.00
263	66.	0.	-67.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-16.	-1.	0.	0.	-12.	0.	0.	0.	14.	0.	0.	-95.0	95.0	0.00
264	67.	0.	-68.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-16.	-1.	0.	0.	-12.	0.	0.	0.	15.	0.	0.	-96.6	96.6	0.00
265	68.	0.	-70.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-16.	-1.	0.	0.	-12.	0.	0.	0.	15.	0.	0.	-98.1	98.1	0.00
266	70.	0.	-71.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-16.	-1.	0.	0.	-12.	0.	0.	0.	15.	0.	0.	-99.8	99.8	0.00
267	71.	0.	-73.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-16.	-1.	0.	0.	-12.	0.	0.	0.	15.	0.	0.	-101.5	101.5	0.00
268	73.	0.	-75.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-16.	-1.	0.	0.	-12.	0.	0.	0.	16.	0.	0.	-103.2	103.2	0.00
269	75.	0.	-76.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-16.	-1.	0.	0.	-12.	0.	0.	0.	16.	0.	0.	-105.0	105.0	0.00

270	76.	0.	-78.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-16.	-1.	0.	0.	-12.	0.	0.	0.	16.	0.	0.	-106.7	106.7	0.00
271	78.	0.	-80.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-16.	-1.	0.	0.	-12.	0.	0.	0.	17.	0.	0.	-108.5	108.5	0.00
272	80.	0.	-82.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-16.	-1.	0.	0.	-12.	0.	0.	0.	17.	0.	0.	-110.4	110.4	0.00
273	82.	0.	-83.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-16.	-1.	0.	0.	-12.	0.	0.	0.	17.	0.	0.	-112.3	112.3	0.00
274	83.	0.	-85.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-16.	-1.	0.	0.	-12.	0.	0.	0.	17.	0.	0.	-114.2	114.2	0.00
275	85.	0.	-87.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-16.	-1.	0.	0.	-12.	0.	0.	0.	18.	0.	0.	-116.1	116.1	0.00
276	87.	0.	-89.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-16.	-1.	0.	0.	-12.	0.	0.	0.	18.	0.	0.	-118.0	118.0	0.00
277	89.	0.	-91.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-16.	-1.	0.	0.	-12.	0.	0.	0.	18.	0.	0.	-120.0	120.0	0.00
278	91.	0.	-93.	0.	0.	0.	1.	0.	0.	1.	0.	11.	-17.	-1.	0.	0.	-12.	0.	0.	0.	19.	0.	0.	-122.8	122.8	0.00
279	93.	0.	-95.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-12.	0.	0.	0.	19.	0.	0.	-124.6	124.6	0.00
280	95.	0.	-97.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-12.	0.	0.	0.	19.	0.	0.	-126.5	126.5	0.00
281	97.	0.	-99.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-16.	-1.	0.	0.	-12.	0.	0.	0.	20.	0.	0.	-128.5	128.5	0.00
282	99.	0.	-101.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-16.	-1.	0.	0.	-12.	0.	0.	0.	20.	0.	0.	-130.6	130.6	0.00
283	101.	0.	-103.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-16.	-1.	0.	0.	-12.	0.	0.	0.	20.	0.	0.	-132.7	132.7	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Black

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
284	103.	0.	-105.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-16.	-1.	0.	0.	-12.	0.	0.	0.	20.	0.	0.	-134.8	134.8	0.00
285	105.	0.	-99.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-17.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-139.0	139.0	0.00
286	99.	0.	-95.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-16.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-134.0	134.0	0.00
287	95.	0.	-93.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-15.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-131.0	131.0	0.00
288	93.	0.	-92.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-14.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-129.4	129.4	0.00
289	92.	0.	-92.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-14.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-128.8	128.8	0.00
290	92.	0.	-93.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-13.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-128.8	128.8	0.00
291	93.	0.	-94.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-12.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-129.2	129.2	0.00
292	94.	0.	-95.	0.	0.	0.	1.	0.	0.	1.	0.	16.	-12.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-130.8	130.8	0.00
293	95.	0.	-97.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-12.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-131.4	131.4	0.00
294	97.	0.	-98.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-12.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-132.1	132.1	0.00
295	98.	0.	-99.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-11.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-133.0	133.0	0.00
296	99.	0.	-100.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-11.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-133.9	133.9	0.00
297	100.	0.	-101.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-11.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-134.8	134.8	0.00
298	101.	0.	-103.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-135.8	135.8	0.00
299	103.	0.	-104.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-136.7	136.7	0.00
300	104.	0.	-105.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-137.6	137.6	0.00
301	105.	0.	-106.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-138.5	138.5	0.00
302	106.	0.	-107.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-139.3	139.3	0.00
303	107.	0.	-108.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-140.1	140.1	0.00
304	108.	0.	-109.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-140.9	140.9	0.00
305	109.	0.	-109.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-141.6	141.6	0.00
306	109.	0.	-110.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-142.3	142.3	0.00
307	110.	0.	-111.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-143.0	143.0	0.00
308	111.	0.	-112.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-143.6	143.6	0.00
309	112.	0.	-112.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-144.2	144.2	0.00
310	112.	0.	-113.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-144.8	144.8	0.00
311	113.	0.	-114.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-145.3	145.3	0.00
312	114.	0.	-114.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-146.3	146.3	0.00
313	114.	0.	-115.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-146.6	146.6	0.00

314	115.	0.	-115.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-147.1	147.1	0.00
315	115.	0.	-116.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-147.5	147.5	0.00
316	116.	0.	-116.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-147.9	147.9	0.00
317	116.	0.	-117.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-148.4	148.4	0.00
318	117.	0.	-117.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-148.8	148.8	0.00
319	117.	0.	-118.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-149.3	149.3	0.00
320	118.	0.	-118.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-149.7	149.7	0.00
321	118.	0.	-119.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-150.2	150.2	0.00
322	119.	0.	-119.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-150.6	150.6	0.00
323	119.	0.	-119.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-151.0	151.0	0.00
324	119.	0.	-120.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-151.5	151.5	0.00
325	120.	0.	-120.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-151.9	151.9	0.00
326	120.	0.	-121.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-152.3	152.3	0.00
327	121.	0.	-121.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-152.7	152.7	0.00
328	121.	0.	-122.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-153.1	153.1	0.00
329	122.	0.	-122.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-153.4	153.4	0.00
330	122.	0.	-122.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-153.8	153.8	0.00
331	122.	0.	-123.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-154.3	154.3	0.00
332	123.	0.	-123.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-154.6	154.6	0.00
333	123.	0.	-123.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-154.9	154.9	0.00
334	123.	0.	-124.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-155.3	155.3	0.00
335	124.	0.	-124.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-155.6	155.6	0.00
336	124.	0.	-124.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-155.9	155.9	0.00
337	124.	0.	-125.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-156.3	156.3	0.00
338	125.	0.	-125.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-156.6	156.6	0.00
339	125.	0.	-126.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-157.1	157.1	0.00
340	126.	0.	-126.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-157.4	157.4	0.00
341	126.	0.	-126.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-157.7	157.7	0.00
342	126.	0.	-126.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-158.0	158.0	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Black

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
343	126.	0.	-127.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-158.3	158.3	0.00
344	127.	0.	-127.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-158.6	158.6	0.00
345	127.	0.	-127.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-158.9	158.9	0.00
346	127.	0.	-128.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-159.2	159.2	0.00
347	128.	0.	-128.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-159.5	159.5	0.00
348	128.	0.	-128.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-159.8	159.8	0.00
349	128.	0.	-129.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-160.1	160.1	0.00
350	129.	0.	-129.	0.	0.	0.	1.	0.	0.	0.	0.	17.	-9.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-160.4	160.4	0.00
351	129.	0.	-129.	0.	0.	0.	1.	0.	0.	0.	0.	17.	-9.	-1.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-160.7	160.7	0.00
352	129.	0.	-127.	0.	0.	0.	1.	0.	0.	2.	0.	18.	-10.	-6.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-164.6	164.6	0.00
353	127.	0.	-124.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-10.	-5.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-160.9	160.9	0.00
354	124.	0.	-123.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-10.	-5.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-158.5	158.5	0.00
355	123.	0.	-122.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-10.	-4.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-156.9	156.9	0.00
356	122.	0.	-121.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-9.	-4.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-156.1	156.1	0.00
357	121.	0.	-121.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-9.	-4.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-155.8	155.8	0.00

358	121.	0.	-122.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-9.	-3.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-155.8	155.8	0.00
359	122.	0.	-122.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-9.	-3.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-156.1	156.1	0.00
360	122.	0.	-123.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-9.	-3.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-156.5	156.5	0.00
361	123.	0.	-124.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-9.	-3.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-157.1	157.1	0.00
362	124.	0.	-125.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-9.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-157.8	157.8	0.00
363	125.	0.	-126.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-9.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-158.5	158.5	0.00
364	126.	0.	-127.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-9.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-159.2	159.2	0.00
365	127.	0.	-127.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-9.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-160.0	160.0	0.00
366	127.	0.	-128.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-9.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-160.7	160.7	0.00
367	128.	0.	-129.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-9.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-161.4	161.4	0.00
368	129.	0.	-130.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-9.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-162.1	162.1	0.00
369	130.	0.	-131.	0.	0.	0.	1.	0.	0.	1.	0.	19.	-9.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-163.5	163.5	0.00
370	131.	0.	-132.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-9.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-164.0	164.0	0.00
371	132.	0.	-132.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-9.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-164.5	164.5	0.00
372	132.	0.	-133.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-9.	-1.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-165.0	165.0	0.00
373	133.	0.	-579.	0.	0.	0.	1.	0.	0.	473.	0.	-2.	-15.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-619.3	619.3	0.00
374	579.	0.	-554.	0.	0.	0.	1.	0.	0.	0.	0.	0.	-15.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-591.9	591.9	0.00
375	554.	0.	-531.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-14.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-568.9	568.9	0.00
376	531.	0.	-511.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-14.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-548.1	548.1	0.00
377	511.	0.	-492.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-14.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-529.2	529.2	0.00
378	492.	0.	-475.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-14.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-512.0	512.0	0.00
379	475.	0.	-460.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-14.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-496.4	496.4	0.00
380	460.	0.	-446.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-482.2	482.2	0.00
381	446.	0.	-433.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-13.	-1.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-469.3	469.3	0.00
382	433.	0.	-422.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-13.	-1.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-457.6	457.6	0.00
383	422.	0.	-411.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-13.	-1.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-447.0	447.0	0.00
384	411.	0.	-402.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-13.	-1.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-437.3	437.3	0.00
385	402.	0.	-393.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-13.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-428.6	428.6	0.00
386	393.	0.	-385.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-13.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-420.6	420.6	0.00
387	385.	0.	-378.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-413.4	413.4	0.00
388	378.	0.	-372.	0.	0.	0.	1.	0.	0.	0.	0.	17.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-406.9	406.9	0.00
389	372.	0.	-366.	0.	0.	0.	1.	0.	0.	0.	0.	18.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-401.0	401.0	0.00
390	366.	0.	-361.	0.	0.	0.	1.	0.	0.	0.	0.	18.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-395.6	395.6	0.00
391	361.	0.	-356.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-390.8	390.8	0.00
392	356.	0.	-352.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-386.4	386.4	0.00
393	352.	0.	-348.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-382.4	382.4	0.00
394	348.	0.	-344.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-378.8	378.8	0.00
395	344.	0.	-341.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-375.6	375.6	0.00
396	341.	0.	-338.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-11.	-1.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-372.6	372.6	0.00
397	338.	0.	-336.	0.	0.	0.	1.	0.	0.	0.	0.	21.	-11.	-1.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-370.0	370.0	0.00
398	336.	0.	-334.	0.	0.	0.	1.	0.	0.	0.	0.	21.	-11.	-1.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-367.6	367.6	0.00
399	334.	0.	-331.	0.	0.	0.	1.	0.	0.	0.	0.	21.	-11.	-1.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-365.4	365.4	0.00
400	331.	0.	-330.	0.	0.	0.	1.	0.	0.	0.	0.	21.	-11.	-1.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-363.4	363.4	0.00
401	330.	0.	-586.	0.	0.	0.	1.	0.	0.	259.	0.	29.	-19.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-627.9	627.9	0.01

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Black

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	INCR IN	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
402	586.	0.	-583.	0.	0.	0.	1.	0.	0.	0.	0.	29.	-19.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-625.4	625.4	0.01	
403	583.	0.	-581.	0.	0.	0.	1.	0.	0.	0.	0.	29.	-19.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-622.9	622.9	0.01	
404	581.	0.	-579.	0.	0.	0.	1.	0.	0.	0.	0.	29.	-19.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-620.5	620.5	0.01	

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

INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD#1	BOD#2	ORG-N	NH3-N	NO3-N	PHOS	CHL A	NCM
	m³/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d		
HEADWATER FLOW	0.262	148.5	87.4	0	29.5	2.4	0	0	0	0
INCREMENTAL INFLOW	7.686	4723.2	4333.9	0	920.1	66.4	0	0	0	0
INCREMENTAL OUTFLOW	0	0	0	0	0	0	0	0	0	0
WASTELOADS	78.318	34738.7	39852.9	0	10261.4	697.1	2.8	0	0	0
WITHDRAWLS	-62.708	-23619.8	-16870	0	-7433.5	-661.2	0	0	0	0
FLOW THRU LOWER BNDRY	-23.558	-6515.6	-7935.6	0	-2303.7	-247.7	0	0	0	0
DISPERSION THRU LOWER BNDRY		0	0	0	0	0	0	0	0	0
DISPERSION THRU HDWTR BNDRY		0	0	0	0	0	0	0	0	0
NON-POINT INPUT		0	171150	0	5770					0
NATURAL REAERATION		43477.9								
DAM REAERATION		0								
BACKGROUND SOD		-68203.4								
BOD#1 DECAY		-190618.7	-190618.7							
BOD#1 SETTLING		0	0							
ANAEROBIC BOD#1 DECAY			0							
BOD#2 DECAY		0		0						
BOD#2 SETTLING		0		0						
ANAEROBIC BOD#2 DECAY				0						
ORG-N DECAY		0			-7243.7	7243.7				
ORG-N SETTLING					0	0				
NH3 DECAY		-30727.2				-7096.3	7096.3			

BACKGROUND NH3 SOURCE						0				
OTHER DENITRIFICATION							0			
PHOSPHORUS SOURCE								0		
ALGAE PHOTOSYNTHESIS		236614.1				0	-22751.5	0	0	
ALGAE RESPIRATION		0				0		0	0	
ALGAE SETTLING		0							0	
MACRO PHOTOSYNTHESIS		0				0	0	0		
NCM DECAY		0								0
NCM SETTLING		0								0
TOTAL INPUTS	86.266	319702.5	215424.2	0	16980.9	8009.6	7099.1	0	0	0
TOTAL OUTPUTS	-86.266	-319684.6	-215424.3	0	-16981	-8005.3	-22751.5	0	0	0
NET CONVERGENCE ERROR	0	17.9	-0.1	0	0	4.3	-15652.3	0	0	0

.....EXECUTION COMPLETED

Calibration output file for subsegment 120204

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LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is D:\LA TMDL 2006\TO95\TT_Models\Lake Verret\Lake Verret calibration_wha.txt
Output produced at 12:34 on 10/12/2007

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

CARD TYPE      CONTROL TITLES

TITLE01        LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
TITLE02        Calibration Simulation for Lake Verret and Grassy Lake model
CNTROL03   NO   SEQU                    <Warning: legacy control - line ignored>
CNTROL04  YES   METR
CNTROL05  YES   OXYG                     <Warning: legacy control - line ignored>
ENDATA01

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

CARD TYPE      MODEL OPTION

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

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

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

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

 CARD TYPE     RATE CODE     THETA VALUE
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ENDATA04

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA05

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA06

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA07

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

REACH ID    1  GL  Grassy Lake                  28.30  TO  24.80  0.1000    3.50     35      1    35
REACH ID    2  FB  Fourmile Bayou 1             24.80  TO  22.80  0.1000    2.00     20     36    55
REACH ID    3  OB  Fourmile Bayou Oxbow          4.20  TO   0.00  0.1000    4.20     42     56    97
REACH ID    4  F2  Fourmile Bayou 2             22.80  TO  19.40  0.1000    3.40     34     98   131
REACH ID    5  V3  Lake Verret 1               19.40  TO  14.50  0.1000    4.90     49    132   180
REACH ID    6  V2  Lake Verret 2               14.50  TO   2.90  0.1000   11.60    116    181   296
REACH ID    7  V1  Lake Verret 3                2.90  TO   0.00  0.1000    2.90     29    297   325
ENDATA08

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

CARD TYPE  REACH  ID     WIDTH     WIDTH     WIDTH     DEPTH     DEPTH     DEPTH    SLOPE   MANNINGS
                  "A"       "B"       "C"       "D"       "E"       "F"              "N"

HYDR-1      1  GL     0.000     0.000  1343.000     0.000     0.000     1.010   0.00000   0.050
HYDR-1      2  FB     0.000     0.000   107.000     0.000     0.000     5.240   0.00000   0.050
HYDR-1      3  OB     0.000     0.000    87.000     0.000     0.000     2.500   0.00000   0.050
HYDR-1      4  F2     0.000     0.000    87.000     0.000     0.000     4.390   0.00000   0.050
HYDR-1      5  V3     0.000     0.000  1892.000     0.000     0.000     1.340   0.00000   0.050
HYDR-1      6  V2     0.000     0.000  4092.000     0.000     0.000     2.130   0.00000   0.050
HYDR-1      7  V1     0.000     0.000   767.000     0.000     0.000     1.950   0.00000   0.050
ENDATA09

$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$
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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  GL      33.10     0.00     5.00     0.10     0.04     0.00    100.00     0.00
INITIAL        2  FB      33.90     0.00     5.00     0.10     0.04     0.00     95.00     0.00
INITIAL        3  OB      33.90     0.00     5.00     0.10     0.04     0.00     95.00     0.00
INITIAL        4  F2      32.90     0.00     5.00     0.10     0.04     0.00     30.00     0.00
INITIAL        5  V3      32.80     0.00     5.00     0.10     0.04     0.00    100.00     0.00
INITIAL        6  V2      32.60     0.00     5.00     0.10     0.04     0.00    105.00     0.00
INITIAL        7  V1      32.50     0.00     5.00     0.10     1.10     0.00     50.00     0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                          BOD    ANAER                    BOD2    ANAER
CARD    RCH  RCH  K2              K2      K2      K2   BKGRND     BOD      BOD     CONV     BOD2     BOD2     BOD2     CONV     BOD2
TYPE    NUM   ID  OPT            "A"     "B"     "C"     SOD    DECAY     SETT   TO SOD    DECAY    DECAY     SETT   TO SOD    DECAY
                                      g/m²/d   per day      m/d            per day   per day      m/d            per day

COEFF-1   1  GL  20 K2=a/D        0.750    0.000    0.000    0.700    0.180    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   2  FB   3 OCONNER-DOBB   0.000    0.000    0.000    3.000    0.210    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   3  OB   3 OCONNER-DOBB   0.000    0.000    0.000    3.000    0.210    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   4  F2   3 OCONNER-DOBB   0.000    0.000    0.000    3.000    0.210    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   5  V3  20 K2=a/D        0.750    0.000    0.000    1.500    0.160    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   6  V2  20 K2=a/D        0.750    0.000    0.000    1.500    0.160    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   7  V1  20 K2=a/D        0.750    0.000    0.000    1.300    0.230    0.000    0.000    0.000    0.000    0.000    0.000    0.000
ENDATA12

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

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

COEFF-2        1  GL     0.020    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2        2  FB     0.020    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2        3  OB     0.020    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2        4  F2     0.020    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2        5  V3     0.020    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2        6  V2     0.020    0.000    0.000    0.200    0.000    0.000    0.000
COEFF-2        7  V1     0.020    0.000    0.000    0.200    0.000    0.000    0.000
ENDATA13

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

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

ENDATA14

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

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

ENDATA15

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

CARD TYPE     REACH  ID     OUTFLOW     INFLOW     TEMP    SALIN     CM-I    CM-II   IN/DIST  OUT/DIST

ENDATA16

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

CARD TYPE     REACH  ID        DO      BOD    ORG-N    NH3-N    NO3-N    BOD#2

ENDATA17

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

 CARD TYPE     REACH  ID      PHOS    CHL A     COLI      NCM

ENDATA18

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

CARD TYPE     REACH  ID     BOD#1    ORG-N     COLI      NCM       DO    BOD#2

NONPOINT        1  GL    38000.00   1000.00      0.00      0.00      0.00      0.00
NONPOINT        2  FB    12000.00    800.00      0.00      0.00      0.00      0.00
NONPOINT        3  OB    10000.00    800.00      0.00      0.00      0.00      0.00
NONPOINT        4  F2    13000.00   1500.00      0.00      0.00      0.00      0.00
NONPOINT        5  V3   220000.00   3000.00      0.00      0.00      0.00      0.00
NONPOINT        6  V2   400000.00    500.00      0.00      0.00      0.00      0.00
NONPOINT        7  V1    21574.00      0.00      0.00      0.00      0.00      0.00
ENDATA19

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

CARD TYPE    ELEMENT   NAME                UNIT     FLOW     FLOW    TEMP    SALIN     CM-I     CM-II
                                          m³/s      cfs   deg C      ppt

HDWTR-1        1    Grassy Lake            0  60.70000 2143.362   33.10     0.00     0.000     0.000   0.00
HDWTR-1       56    Fourmile Bayou Oxbow   0   8.80000  310.734   33.90     0.00     0.000     0.000   0.00
ENDATA20
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$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE    ELEMENT   NAME                    DO    BOD#1    ORG-N    NH3-N    NO3-N    BOD#2
                                            mg/L     mg/L     mg/L     mg/L     mg/L     mg/L

HDWTR-2        1    Grassy Lake            6.70    23.50     1.60     0.10     0.04     0.00
HDWTR-2       56    Fourmile Bayou Oxbow   6.80    25.50     1.70     0.10     0.04     0.00
ENDATA21

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

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

ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM    RIVER    NAME
         ELEMENT  ELEMENT    KILOM

JUNCTION       98     55     22.80  Fourmile Bayou Oxbow
ENDATA23

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

CARD TYPE  ELEMENT   RKILO  NAME                 FLOW      FLOW     FLOW    TEMP    SALIN     CM-I    CM-II
                                              m³/s       cfs      MGD   deg C     ppt

WSTLD-1      26     25.80  Outflow to FB Oxbow   -8.80000 -310.73447 -200.863   33.90     0.00     0.000     0.000
WSTLD-1     132     19.40  Bayou Magazille       30.10000 1062.85315  687.041   33.10     0.00     0.000     0.000
WSTLD-1     140     18.60  NPDES Group1           0.00157    0.05544    0.036    0.00     0.00     0.000     0.000
WSTLD-1     149     17.70  LAG540112              0.00044    0.01554    0.010    0.00     0.00     0.000     0.000
WSTLD-1     208     11.80  LAG560026              0.00125    0.04414    0.029    0.00     0.00     0.000     0.000
WSTLD-1     264      6.20  NPDES Group2           0.00922    0.32556    0.210    0.00     0.00     0.000     0.000
WSTLD-1     319      0.70  NPDES Group3           0.00008    0.00282    0.002    0.00     0.00     0.000     0.000
ENDATA24

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

WSTLD-2       26    Outflow to FB Oxbow     6.80    25.50     0.00     1.70     0.10     0.00     0.00     0.00
WSTLD-2      132    Bayou Magazille         7.60    16.80     0.00     2.40     0.10     0.00     0.20     0.00
WSTLD-2      140    NPDES Group1            5.00    30.00     0.00     2.00     1.50     0.00     2.00     0.00
WSTLD-2      149    LAG540112               5.00    30.00     0.00     2.00     1.50     0.00     2.00     0.00
WSTLD-2      208    LAG560026               5.00    20.00     0.00     2.00     1.50     0.00     2.00     0.00
WSTLD-2      264    NPDES Group2            5.00    11.80     0.00     2.00     5.72     0.00     2.00     0.00
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WSTLD-2       319    NPDES Group3            5.00    45.00     0.00     2.00     1.50     0.00     2.00     0.00
ENDATA25

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

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

ENDATA26

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

CARD TYPE    CONSTITUENT                 CONCENTRATION

ENDATA27

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

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

ENDATA28

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

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

ENDATA29

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


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

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


OVERLAY 1 LakeVerret.OVL                :Lake Verret and Grassy Lake
ENDATA31



    .....NO ERRORS DETECTED IN INPUT DATA
    .....HYDRAULIC CALCULATIONS COMPLETED
    .....TRIDIAGONAL MATRIX TERMS INITIALIZED
    .....OXYGEN DEPENDENT RATES CONVERGENT IN  16 ITERATIONS
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.....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING: NEGATIVE CONCENTRATIONS SET TO ZERO FOR Nitrate+Nitrite Nitrogen
.....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
.....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12

INTERMEDIATE REPORT
Dissolved Oxygen — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
mg/L — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	6.70	6.70	6.70	6.70	6.70	6.69	6.69	6.69	6.69	6.68
GL	1	11	6.68	6.67	6.67	6.67	6.66	6.65	6.65	6.64	6.64	6.63
GL	1	21	6.62	6.62	6.61	6.60	6.59	6.58	6.57	6.56	6.55	6.54
GL	1	31	6.53	6.52	6.51	6.50	6.49					
FB	2	36	6.46	6.43	6.39	6.35	6.31	6.26	6.22	6.16	6.10	6.04
FB	2	46	5.98	5.91	5.84	5.77	5.69	5.61	5.52	5.44	5.34	5.23
F2	4	98	4.57	4.52	4.47	4.42	4.37	4.32	4.27	4.23	4.18	4.14
F2	4	108	4.10	4.06	4.02	3.99	3.95	3.92	3.88	3.85	3.82	3.80
F2	4	118	3.77	3.74	3.72	3.70	3.67	3.65	3.64	3.62	3.60	3.59
F2	4	128	3.57	3.56	3.55	3.58						
V3	5	132	4.93	4.98	5.02	5.05	5.08	5.11	5.13	5.15	5.17	5.18
V3	5	142	5.19	5.20	5.21	5.21	5.21	5.21	5.20	5.19	5.18	5.17
V3	5	152	5.16	5.14	5.12	5.10	5.08	5.05	5.03	5.00	4.97	4.94
V3	5	162	4.91	4.87	4.84	4.80	4.76	4.73	4.69	4.64	4.60	4.56
V3	5	172	4.51	4.47	4.42	4.37	4.33	4.28	4.23	4.18	4.12	
V2	6	181	3.99	3.87	3.77	3.70	3.64	3.59	3.57	3.55	3.55	3.56
V2	6	191	3.58	3.60	3.64	3.69	3.74	3.79	3.86	3.92	4.00	4.07
V2	6	201	4.15	4.23	4.31	4.40	4.48	4.57	4.66	4.74	4.83	4.92
V2	6	211	5.01	5.09	5.18	5.27	5.35	5.43	5.51	5.59	5.67	5.74
V2	6	221	5.82	5.89	5.96	6.03	6.09	6.15	6.21	6.27	6.33	6.38
V2	6	231	6.43	6.48	6.52	6.57	6.61	6.65	6.68	6.71	6.75	6.77
V2	6	241	6.80	6.82	6.84	6.86	6.88	6.89	6.90	6.91	6.92	6.92
V2	6	251	6.92	6.92	6.92	6.92	6.91	6.90	6.89	6.88	6.86	6.85
V2	6	261	6.83	6.81	6.79	6.76	6.74	6.71	6.68	6.65	6.62	6.58
V2	6	271	6.55	6.51	6.47	6.43	6.39	6.35	6.31	6.26	6.22	6.17
V2	6	281	6.12	6.07	6.02	5.97	5.91	5.86	5.80	5.75	5.69	5.63
V2	6	291	5.57	5.51	5.45	5.39	5.32	5.26				
V1	7	297	5.22	5.18	5.14	5.10	5.06	5.02	4.98	4.94	4.90	4.87
V1	7	307	4.83	4.79	4.76	4.72	4.69	4.65	4.62	4.58	4.55	4.52
V1	7	317	4.49	4.46	4.42	4.39	4.36	4.33	4.30	4.27	4.27	
OB	3	56	6.67	6.55	6.42	6.29	6.16	6.02	5.88	5.74	5.59	5.45
OB	3	66	5.30	5.14	4.99	4.83	4.67	4.51	4.34	4.18	4.01	3.83
OB	3	76	3.66	3.48	3.31	3.13	2.94	2.76	2.57	2.38	2.19	2.00
OB	3	86	1.84	1.70	1.58	1.47	1.38	1.30	1.23	1.17	1.11	1.06
OB	3	96	1.01	1.06								

INTERMEDIATE REPORT
Effective BOD
mg/L

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	23.51	23.51	23.52	23.53	23.53	23.54	23.54	23.55	23.55	23.56
GL	1	11	23.56	23.57	23.57	23.58	23.58	23.58	23.59	23.59	23.59	23.59
GL	1	21	23.59	23.60	23.60	23.60	23.60	23.60	23.60	23.60	23.60	23.60
GL	1	31	23.60	23.60	23.60	23.60	23.60					
FB	2	36	23.62	23.63	23.65	23.67	23.69	23.70	23.72	23.74	23.76	23.78
FB	2	46	23.79	23.81	23.83	23.85	23.87	23.89	23.91	23.93	23.95	23.99
F2	4	98	24.51	24.51	24.52	24.52	24.53	24.53	24.54	24.54	24.55	24.55
F2	4	108	24.56	24.56	24.57	24.57	24.58	24.58	24.59	24.59	24.60	24.60
F2	4	118	24.61	24.61	24.62	24.62	24.63	24.63	24.64	24.64	24.65	24.65
F2	4	128	24.66	24.66	24.67	24.62						
V3	5	132	22.43	22.79	23.15	23.50	23.85	24.20	24.54	24.88	25.22	25.56
V3	5	142	25.89	26.22	26.54	26.87	27.19	27.50	27.82	28.13	28.44	28.74
V3	5	152	29.05	29.35	29.64	29.94	30.23	30.52	30.81	31.09	31.37	31.65
V3	5	162	31.93	32.20	32.48	32.74	33.01	33.28	33.54	33.80	34.06	34.31
V3	5	172	34.56	34.82	35.06	35.31	35.55	35.80	36.04	36.27	36.50	
V2	6	181	35.80	35.13	34.47	33.84	33.23	32.63	32.06	31.50	30.96	30.43
V2	6	191	29.92	29.43	28.95	28.49	28.04	27.60	27.18	26.77	26.38	25.99
V2	6	201	25.62	25.26	24.91	24.57	24.25	23.93	23.62	23.32	23.03	22.75
V2	6	211	22.48	22.21	21.96	21.71	21.47	21.24	21.01	20.79	20.58	20.38
V2	6	221	20.18	19.98	19.80	19.62	19.44	19.27	19.10	18.94	18.79	18.64
V2	6	231	18.49	18.35	18.22	18.08	17.96	17.83	17.71	17.59	17.48	17.37
V2	6	241	17.26	17.16	17.06	16.96	16.87	16.78	16.69	16.60	16.52	16.44
V2	6	251	16.36	16.29	16.22	16.14	16.08	16.01	15.94	15.88	15.82	15.76
V2	6	261	15.71	15.65	15.60	15.55	15.50	15.45	15.40	15.35	15.31	15.27
V2	6	271	15.23	15.19	15.15	15.11	15.07	15.04	15.00	14.97	14.94	14.91
V2	6	281	14.88	14.85	14.82	14.79	14.76	14.74	14.71	14.69	14.67	14.64
V2	6	291	14.62	14.60	14.58	14.56	14.54	14.52				
V1	7	297	14.50	14.48	14.47	14.45	14.43	14.41	14.40	14.38	14.36	14.35
V1	7	307	14.33	14.31	14.30	14.28	14.26	14.25	14.23	14.22	14.20	14.18
V1	7	317	14.17	14.15	14.14	14.12	14.11	14.09	14.08	14.06	13.61	
OB	3	56	25.52	25.55	25.57	25.59	25.62	25.64	25.66	25.69	25.71	25.73
OB	3	66	25.76	25.78	25.81	25.83	25.85	25.88	25.90	25.92	25.95	25.97
OB	3	76	26.00	26.02	26.05	26.07	26.09	26.12	26.14	26.17	26.19	26.22
OB	3	86	26.27	26.33	26.42	26.52	26.63	26.75	26.89	27.03	27.18	27.33
OB	3	96	27.49	27.55								

INTERMEDIATE REPORT
Biochemical Oxygen Demand
mg/L

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

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

GL	1	1	23.51	23.51	23.52	23.53	23.53	23.54	23.54	23.55	23.55	23.56
GL	1	11	23.56	23.57	23.57	23.58	23.58	23.58	23.59	23.59	23.59	23.59
GL	1	21	23.59	23.60	23.60	23.60	23.60	23.60	23.60	23.60	23.60	23.60
GL	1	31	23.60	23.60	23.60	23.60	23.60					
FB	2	36	23.62	23.63	23.65	23.67	23.69	23.70	23.72	23.74	23.76	23.78
FB	2	46	23.79	23.81	23.83	23.85	23.87	23.89	23.91	23.93	23.95	23.99
F2	4	98	24.51	24.51	24.52	24.52	24.53	24.53	24.54	24.54	24.55	24.55
F2	4	108	24.56	24.56	24.57	24.57	24.58	24.58	24.59	24.59	24.60	24.60
F2	4	118	24.61	24.61	24.62	24.62	24.63	24.63	24.64	24.64	24.65	24.65
F2	4	128	24.66	24.66	24.67	24.62						
V3	5	132	22.43	22.79	23.15	23.50	23.85	24.20	24.54	24.88	25.22	25.56
V3	5	142	25.89	26.22	26.54	26.87	27.19	27.50	27.82	28.13	28.44	28.74
V3	5	152	29.05	29.35	29.64	29.94	30.23	30.52	30.81	31.09	31.37	31.65
V3	5	162	31.93	32.20	32.48	32.74	33.01	33.28	33.54	33.80	34.06	34.31
V3	5	172	34.56	34.82	35.06	35.31	35.55	35.80	36.04	36.27	36.50	
V2	6	181	35.80	35.13	34.47	33.84	33.23	32.63	32.06	31.50	30.96	30.43
V2	6	191	29.92	29.43	28.95	28.49	28.04	27.60	27.18	26.77	26.38	25.99
V2	6	201	25.62	25.26	24.91	24.57	24.25	23.93	23.62	23.32	23.03	22.75
V2	6	211	22.48	22.21	21.96	21.71	21.47	21.24	21.01	20.79	20.58	20.38
V2	6	221	20.18	19.98	19.80	19.62	19.44	19.27	19.10	18.94	18.79	18.64
V2	6	231	18.49	18.35	18.22	18.08	17.96	17.83	17.71	17.59	17.48	17.37
V2	6	241	17.26	17.16	17.06	16.96	16.87	16.78	16.69	16.60	16.52	16.44
V2	6	251	16.36	16.29	16.22	16.14	16.08	16.01	15.94	15.88	15.82	15.76
V2	6	261	15.71	15.65	15.60	15.55	15.50	15.45	15.40	15.35	15.31	15.27
V2	6	271	15.23	15.19	15.15	15.11	15.07	15.04	15.00	14.97	14.94	14.91
V2	6	281	14.88	14.85	14.82	14.79	14.76	14.74	14.71	14.69	14.67	14.64
V2	6	291	14.62	14.60	14.58	14.56	14.54	14.52				
V1	7	297	14.50	14.48	14.47	14.45	14.43	14.41	14.40	14.38	14.36	14.35
V1	7	307	14.33	14.31	14.30	14.28	14.26	14.25	14.23	14.22	14.20	14.18
V1	7	317	14.17	14.15	14.14	14.12	14.11	14.09	14.08	14.06	13.61	
OB	3	56	25.52	25.55	25.57	25.59	25.62	25.64	25.66	25.69	25.71	25.73
OB	3	66	25.76	25.78	25.81	25.83	25.85	25.88	25.90	25.92	25.95	25.97
OB	3	76	26.00	26.02	26.05	26.07	26.09	26.12	26.14	26.17	26.19	26.22
OB	3	86	26.27	26.33	26.42	26.52	26.63	26.75	26.89	27.03	27.18	27.33
OB	3	96	27.49	27.55								

INTERMEDIATE REPORT
Organic Nitrogen
mg/L

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	1.60	1.61	1.61	1.62	1.62	1.63	1.63	1.63	1.64	1.64
GL	1	11	1.65	1.65	1.66	1.66	1.67	1.67	1.67	1.68	1.68	1.69
GL	1	21	1.69	1.70	1.70	1.70	1.71	1.71	1.72	1.72	1.73	1.73
GL	1	31	1.74	1.74	1.75	1.75	1.76					
FB	2	36	1.77	1.77	1.78	1.79	1.80	1.81	1.82	1.82	1.83	1.84

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

INTERMEDIATE REPORT
Ammonia Nitrogen
mg/L

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
GL	1	11	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09
GL	1	21	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
GL	1	31	0.09	0.09	0.09	0.09	0.09					
FB	2	36	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
FB	2	46	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
F2	4	98	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10
F2	4	108	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
F2	4	118	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
F2	4	128	0.10	0.10	0.10	0.10						
V3	5	132	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

V3	5	142	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V3	5	152	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
V3	5	162	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
V3	5	172	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	
V2	6	181	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13
V2	6	191	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
V2	6	201	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
V2	6	211	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
V2	6	221	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
V2	6	231	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
V2	6	241	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
V2	6	251	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
V2	6	261	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
V2	6	271	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V2	6	281	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V2	6	291	0.10	0.10	0.10	0.10	0.10	0.10				
V1	7	297	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V1	7	307	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V1	7	317	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
OB	3	56	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
OB	3	66	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
OB	3	76	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
OB	3	86	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12
OB	3	96	0.12	0.12								

INTERMEDIATE REPORT
Nitrate+Nitrite Nitrogen
mg/L

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	31	0.00	0.00	0.00	0.00	0.00					
FB	2	36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FB	2	46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	128	0.00	0.00	0.00	0.00						
V3	5	132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
V2	6	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

INTERMEDIATE REPORT
Total Nitrogen
mg/L

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

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

V2	6	261	2.23	2.22	2.22	2.21	2.20	2.20	2.19	2.19	2.18	2.18
V2	6	271	2.17	2.16	2.16	2.15	2.15	2.14	2.14	2.13	2.13	2.12
V2	6	281	2.12	2.11	2.10	2.10	2.09	2.09	2.08	2.08	2.07	2.07
V2	6	291	2.06	2.06	2.05	2.05	2.04	2.04				
V1	7	297	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03
V1	7	307	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.02
V1	7	317	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.01	1.95	
OB	3	56	1.85	1.87	1.88	1.89	1.92	1.94	1.96	1.99	2.01	2.03
OB	3	66	2.06	2.08	2.11	2.13	2.15	2.18	2.20	2.22	2.25	2.27
OB	3	76	2.29	2.32	2.34	2.37	2.39	2.41	2.44	2.46	2.48	2.51
OB	3	86	2.53	2.56	2.58	2.61	2.63	2.66	2.68	2.71	2.73	2.76
OB	3	96	2.78	2.78								

INTERMEDIATE REPORT
Chlorophyll a
µg/L

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	
GL	1	1	99.86	99.71	99.57	99.43	99.29	99.14	99.00	98.86	98.71	98.57	
GL	1	11	98.43	98.29	98.14	98.00	97.86	97.71	97.57	97.43	97.29	97.14	
GL	1	21	97.00	96.86	96.71	96.57	96.43	96.29	96.14	96.00	95.86	95.71	
GL	1	31	95.57	95.43	95.29	95.14	95.00						
FB	2	36	91.75	88.50	85.25	82.00	78.75	75.50	72.25	69.00	65.75	62.50	
FB	2	46	59.25	56.00	52.75	49.50	46.25	43.00	39.75	36.50	33.25	30.00	
F2	4	98	32.06	34.12	36.18	38.24	40.29	42.35	44.41	46.47	48.53	50.59	
F2	4	108	52.65	54.71	56.76	58.82	60.88	62.94	65.00	67.06	69.12	71.18	
F2	4	118	73.24	75.29	77.35	79.41	81.47	83.53	85.59	87.65	89.71	91.76	
F2	4	128	93.82	95.88	97.94	100.00							
V3	5	132	100.10	100.20	100.31	100.41	100.51	100.61	100.71	100.82	100.92	101.02	
V3	5	142	101.12	101.22	101.33	101.43	101.53	101.63	101.73	101.84	101.94	102.04	
V3	5	152	102.14	102.24	102.35	102.45	102.55	102.65	102.76	102.86	102.96	103.06	
V3	5	162	103.16	103.27	103.37	103.47	103.57	103.67	103.78	103.88	103.98	104.08	
V3	5	172	104.18	104.29	104.39	104.49	104.59	104.69	104.80	104.90	105.00		
V2	6	181	104.53	104.05	103.58	103.10	102.63	102.16	101.68	101.21	100.73	100.26	
V2	6	191	99.78	99.31	98.84	98.36	97.89	97.41	96.94	96.47	95.99	95.52	
V2	6	201	95.04	94.57	94.09	93.62	93.15	92.67	92.20	91.72	91.25	90.78	
V2	6	211	90.30	89.83	89.35	88.88	88.41	87.93	87.46	86.98	86.51	86.03	
V2	6	221	85.56	85.09	84.61	84.14	83.66	83.19	82.72	82.24	81.77	81.29	
V2	6	231	80.82	80.34	79.87	79.40	78.92	78.45	77.97	77.50	77.03	76.55	
V2	6	241	76.08	75.60	75.13	74.66	74.18	73.71	73.23	72.76	72.28	71.81	
V2	6	251	71.34	70.86	70.39	69.91	69.44	68.97	68.49	68.02	67.54	67.07	
V2	6	261	66.59	66.12	65.65	65.17	64.70	64.22	63.75	63.28	62.80	62.33	
V2	6	271	61.85	61.38	60.91	60.43	59.96	59.48	59.01	58.53	58.06	57.59	
V2	6	281	57.11	56.64	56.16	55.69	55.22	54.74	54.27	53.79	53.32	52.84	
V2	6	291	52.37	51.90	51.42	50.95	50.47	50.00					
V1	7	297	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	
V1	7	307	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	

V1	7	317	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	
OB	3	56	93.45	91.90	90.36	88.81	87.26	85.71	84.17	82.62	81.07	79.52
OB	3	66	77.98	76.43	74.88	73.33	71.79	70.24	68.69	67.14	65.60	64.05
OB	3	76	62.50	60.95	59.40	57.86	56.31	54.76	53.21	51.67	50.12	48.57
OB	3	86	47.02	45.48	43.93	42.38	40.83	39.29	37.74	36.19	34.64	33.10
OB	3	96	31.55	30.00								

INTERMEDIATE REPORT
Temperature
deg C

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

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

INTERMEDIATE REPORT
Salinity
ppt

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

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

INTERMEDIATE REPORT
River Distance
km

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	28.	28.	28.	28.	28.	28.	28.	27.	27.	27.
GL	1	11	27.	27.	27.	27.	27.	27.	27.	26.	26.	26.
GL	1	21	26.	26.	26.	26.	26.	26.	26.	25.	25.	25.
GL	1	31	25.	25.	25.	25.	25.					
FB	2	36	25.	25.	24.	24.	24.	24.	24.	24.	24.	24.
FB	2	46	24.	24.	23.	23.	23.	23.	23.	23.	23.	23.
F2	4	98	23.	23.	22.	22.	22.	22.	22.	22.	22.	22.
F2	4	108	22.	22.	21.	21.	21.	21.	21.	21.	21.	21.
F2	4	118	21.	21.	20.	20.	20.	20.	20.	20.	20.	20.
F2	4	128	20.	20.	19.	19.						
V3	5	132	19.	19.	19.	19.	19.	19.	19.	19.	18.	18.
V3	5	142	18.	18.	18.	18.	18.	18.	18.	18.	17.	17.
V3	5	152	17.	17.	17.	17.	17.	17.	17.	17.	16.	16.
V3	5	162	16.	16.	16.	16.	16.	16.	16.	16.	15.	15.
V3	5	172	15.	15.	15.	15.	15.	15.	15.	15.	14.	
V2	6	181	14.	14.	14.	14.	14.	14.	14.	14.	14.	13.
V2	6	191	13.	13.	13.	13.	13.	13.	13.	13.	13.	12.
V2	6	201	12.	12.	12.	12.	12.	12.	12.	12.	12.	11.
V2	6	211	11.	11.	11.	11.	11.	11.	11.	11.	11.	10.
V2	6	221	10.	10.	10.	10.	10.	10.	10.	10.	10.	9.
V2	6	231	9.	9.	9.	9.	9.	9.	9.	9.	9.	8.
V2	6	241	8.	8.	8.	8.	8.	8.	8.	8.	8.	7.
V2	6	251	7.	7.	7.	7.	7.	7.	7.	7.	7.	6.
V2	6	261	6.	6.	6.	6.	6.	6.	6.	6.	6.	5.
V2	6	271	5.	5.	5.	5.	5.	5.	5.	5.	5.	4.
V2	6	281	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.
V2	6	291	3.	3.	3.	3.	3.	3.				
V1	7	297	3.	3.	3.	3.	2.	2.	2.	2.	2.	2.
V1	7	307	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.
V1	7	317	1.	1.	1.	1.	0.	0.	0.	0.	0.	
OB	3	56	4.	4.	4.	4.	4.	4.	4.	3.	3.	3.
OB	3	66	3.	3.	3.	3.	3.	3.	3.	2.	2.	2.
OB	3	76	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.
OB	3	86	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.
OB	3	96	0.	0.								

INTERMEDIATE REPORT

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

m^3/s — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GL	1	11	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GL	1	21	60.7	60.7	60.7	60.7	60.7	51.9	51.9	51.9	51.9	51.9

GL	1	31	51.9	51.9	51.9	51.9	51.9					
FB	2	36	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
FB	2	46	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
F2	4	98	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
F2	4	108	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
F2	4	118	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
F2	4	128	60.7	60.7	60.7	60.7						
V3	5	132	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V3	5	142	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V3	5	152	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V3	5	162	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V3	5	172	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	
V2	6	181	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V2	6	191	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V2	6	201	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V2	6	211	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V2	6	221	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V2	6	231	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V2	6	241	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V2	6	251	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V2	6	261	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V2	6	271	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V2	6	281	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V2	6	291	90.8	90.8	90.8	90.8	90.8	90.8				
V1	7	297	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V1	7	307	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
V1	7	317	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	
OB	3	56	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
OB	3	66	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
OB	3	76	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
OB	3	86	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
OB	3	96	8.8	8.8								

INTERMEDIATE REPORT

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

m^2/s — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GL	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GL	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GL	1	31	0.0	0.0	0.0	0.0	0.0					
FB	2	36	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
FB	2	46	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
F2	4	98	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
F2	4	108	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
F2	4	118	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

F2	4	128	0.5	0.5	0.5	0.5						
V3	5	132	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V3	5	142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V3	5	152	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V3	5	162	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V3	5	172	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
V2	6	181	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	191	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	201	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	211	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	221	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	231	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	241	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	251	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	261	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	271	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	281	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	291	0.0	0.0	0.0	0.0	0.0	0.0				
V1	7	297	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
V1	7	307	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
V1	7	317	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
OB	3	56	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
OB	3	66	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
OB	3	76	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
OB	3	86	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
OB	3	96	0.1	0.1								

INTERMEDIATE REPORT
Advective Velocity
m/s

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GL	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GL	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GL	1	31	0.0	0.0	0.0	0.0	0.0					
FB	2	36	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
FB	2	46	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
F2	4	98	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
F2	4	108	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
F2	4	118	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
F2	4	128	0.2	0.2	0.2	0.2						
V3	5	132	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V3	5	142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V3	5	152	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V3	5	162	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V3	5	172	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

V2	6	181	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	191	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	201	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	211	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	221	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	231	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	241	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	251	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	261	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	271	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	281	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V2	6	291	0.0	0.0	0.0	0.0	0.0	0.0				
V1	7	297	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
V1	7	307	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
V1	7	317	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
OB	3	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OB	3	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OB	3	76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OB	3	86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OB	3	96	0.0	0.0								

INTERMEDIATE REPORT

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

m — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
GL	1	11	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
GL	1	21	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
GL	1	31	1.0	1.0	1.0	1.0	1.0					
FB	2	36	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
FB	2	46	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
F2	4	98	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
F2	4	108	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
F2	4	118	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
F2	4	128	4.4	4.4	4.4	4.4						
V3	5	132	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
V3	5	142	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
V3	5	152	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
V3	5	162	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
V3	5	172	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
V2	6	181	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
V2	6	191	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
V2	6	201	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
V2	6	211	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
V2	6	221	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
V2	6	231	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

V2	6	241	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
V2	6	251	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
V2	6	261	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
V2	6	271	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
V2	6	281	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
V2	6	291	2.1	2.1	2.1	2.1	2.1	2.1				
V1	7	297	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
V1	7	307	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
V1	7	317	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
OB	3	56	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
OB	3	66	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
OB	3	76	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
OB	3	86	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
OB	3	96	2.5	2.5								

INTERMEDIATE REPORT
Width
m

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0
GL	1	11	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0
GL	1	21	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0
GL	1	31	1343.0	1343.0	1343.0	1343.0	1343.0					
FB	2	36	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0
FB	2	46	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0
F2	4	98	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
F2	4	108	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
F2	4	118	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
F2	4	128	87.0	87.0	87.0	87.0						
V3	5	132	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0
V3	5	142	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0
V3	5	152	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0
V3	5	162	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0
V3	5	172	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	1892.0	
V2	6	181	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
V2	6	191	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
V2	6	201	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
V2	6	211	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
V2	6	221	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
V2	6	231	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
V2	6	241	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
V2	6	251	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
V2	6	261	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
V2	6	271	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
V2	6	281	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
V2	6	291	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0				

V1	7	297	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0
V1	7	307	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0
V1	7	317	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	
OB	3	56	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
OB	3	66	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
OB	3	76	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
OB	3	86	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
OB	3	96	87.0	87.0								

INTERMEDIATE REPORT

Cross-Sectional Area m²

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4
GL	1	11	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4
GL	1	21	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4
GL	1	31	1356.4	1356.4	1356.4	1356.4	1356.4					
FB	2	36	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
FB	2	46	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
F2	4	98	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9
F2	4	108	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9
F2	4	118	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9
F2	4	128	381.9	381.9	381.9	381.9						
V3	5	132	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3
V3	5	142	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3
V3	5	152	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3
V3	5	162	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3
V3	5	172	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	2535.3	
V2	6	181	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0
V2	6	191	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0
V2	6	201	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0
V2	6	211	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0
V2	6	221	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0
V2	6	231	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0
V2	6	241	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0
V2	6	251	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0
V2	6	261	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0
V2	6	271	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0
V2	6	281	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0
V2	6	291	8716.0	8716.0	8716.0	8716.0	8716.0	8716.0				
V1	7	297	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7
V1	7	307	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7
V1	7	317	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	
OB	3	56	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5
OB	3	66	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5
OB	3	76	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5

OB	3	86	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5
OB	3	96	217.5	217.5								

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.942	0.942	0.943	0.943	0.943	0.944	0.944	0.944	0.945	0.945
GL	1	11	0.945	0.946	0.946	0.947	0.947	0.947	0.948	0.948	0.948	0.949
GL	1	21	0.949	0.949	0.950	0.950	0.950	0.951	0.951	0.952	0.952	0.952
GL	1	31	0.953	0.953	0.953	0.954	0.954					
FB	2	36	0.172	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.170	0.170
FB	2	46	0.170	0.170	0.170	0.170	0.170	0.169	0.169	0.169	0.169	0.169
F2	4	98	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215
F2	4	108	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215
F2	4	118	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215
F2	4	128	0.215	0.215	0.215	0.215						
V3	5	132	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706
V3	5	142	0.706	0.706	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705
V3	5	152	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705
V3	5	162	0.705	0.705	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704
V3	5	172	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704	
V2	6	181	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
V2	6	191	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
V2	6	201	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
V2	6	211	0.443	0.443	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	221	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	231	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	241	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	251	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	261	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	271	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	281	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	291	0.442	0.442	0.442	0.442	0.442	0.442				
V1	7	297	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483
V1	7	307	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483
V1	7	317	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	
OB	3	56	0.360	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.358	0.358
OB	3	66	0.358	0.358	0.358	0.358	0.358	0.357	0.357	0.357	0.357	0.357
OB	3	76	0.357	0.357	0.357	0.356	0.356	0.356	0.356	0.356	0.356	0.356
OB	3	86	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.354	0.354	0.354
OB	3	96	0.354	0.354								

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

per day

Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
GL	1	11	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34
GL	1	21	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
GL	1	31	0.34	0.34	0.34	0.34	0.34					
FB	2	36	0.40	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
FB	2	46	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.38
F2	4	98	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
F2	4	108	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
F2	4	118	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
F2	4	128	0.38	0.38	0.38	0.38						
V3	5	132	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V3	5	142	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V3	5	152	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V3	5	162	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V3	5	172	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	
V2	6	181	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V2	6	191	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V2	6	201	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V2	6	211	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28
V2	6	221	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	231	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	241	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	251	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	261	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	271	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	281	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	291	0.28	0.28	0.28	0.28	0.28	0.28				
V1	7	297	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
V1	7	307	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
V1	7	317	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	
OB	3	56	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39
OB	3	66	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
OB	3	76	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38
OB	3	86	0.35	0.33	0.30	0.28	0.26	0.25	0.23	0.22	0.21	0.20
OB	3	96	0.19	0.20								

INTERMEDIATE REPORT

BOD Settling Rate

per day

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

Calibration Simulation for Lake Verret and Grassy Lake model

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

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

INTERMEDIATE REPORT
Ammonia Decay Rate
per day

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

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.55	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
GL	1	11	0.56	0.56	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
GL	1	21	0.57	0.57	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
GL	1	31	0.58	0.58	0.58	0.58	0.59					
FB	2	36	0.58	0.58	0.58	0.57	0.57	0.57	0.56	0.56	0.56	0.56
FB	2	46	0.55	0.55	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.52
F2	4	98	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.49	0.49

F2	4	108	0.49	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.47	0.47
F2	4	118	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.46
F2	4	128	0.46	0.46	0.46	0.46						
V3	5	132	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
V3	5	142	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
V3	5	152	0.51	0.51	0.51	0.51	0.51	0.50	0.50	0.50	0.50	0.50
V3	5	162	0.50	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.49
V3	5	172	0.49	0.49	0.49	0.48	0.48	0.48	0.48	0.48	0.48	
V2	6	181	0.47	0.47	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
V2	6	191	0.46	0.46	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47
V2	6	201	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.50
V2	6	211	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.51	0.51
V2	6	221	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
V2	6	231	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
V2	6	241	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
V2	6	251	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
V2	6	261	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
V2	6	271	0.53	0.53	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
V2	6	281	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.51	0.51	0.51
V2	6	291	0.51	0.51	0.51	0.50	0.50	0.50				
V1	7	297	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.49	0.49	0.49
V1	7	307	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.48	0.48
V1	7	317	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	
OB	3	56	0.59	0.58	0.58	0.58	0.57	0.57	0.57	0.56	0.56	0.55
OB	3	66	0.55	0.55	0.54	0.54	0.53	0.52	0.52	0.51	0.50	0.50
OB	3	76	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.40	0.39
OB	3	86	0.29	0.22	0.16	0.13	0.10	0.08	0.06	0.05	0.04	0.04
OB	3	96	0.03	0.04								

INTERMEDIATE REPORT
Sediment Oxygen Demand
g/m²/d

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

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

V3	5	162	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.32
V3	5	172	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	
V2	6	181	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.31
V2	6	191	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	201	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	211	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	221	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	231	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	241	3.31	3.31	3.31	3.31	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	251	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	261	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	271	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	281	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	291	3.30	3.30	3.30	3.30	3.30	3.30				
V1	7	297	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86
V1	7	307	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86
V1	7	317	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	
OB	3	56	7.19	7.18	7.17	7.16	7.15	7.13	7.12	7.11	7.10	7.09
OB	3	66	7.08	7.07	7.06	7.05	7.04	7.03	7.02	7.01	7.00	6.99
OB	3	76	6.98	6.97	6.96	6.94	6.93	6.92	6.91	6.90	6.89	6.88
OB	3	86	6.31	5.82	5.40	5.03	4.71	4.43	4.19	3.97	3.77	3.59
OB	3	96	3.43	3.59								

CONDENSED CAPSULE SUMMARY FOR Grassy Lake

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3 NH3	CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	60.70000	33.10	0.00	6.70	23.50	0.00	1.60	0.10	100.00							
28.20	60.70000	33.12	0.00	6.70	23.51	0.00	1.60	0.10	99.86	0.94	0.33	0.00	0.00	0.00	0.55	1.60
28.10	60.70000	33.15	0.00	6.70	23.51	0.00	1.61	0.10	99.71	0.94	0.33	0.00	0.00	0.00	0.56	1.60
28.00	60.70000	33.17	0.00	6.70	23.52	0.00	1.61	0.10	99.57	0.94	0.33	0.00	0.00	0.00	0.56	1.60
27.90	60.70000	33.19	0.00	6.70	23.53	0.00	1.62	0.10	99.43	0.94	0.33	0.00	0.00	0.00	0.56	1.61
27.80	60.70000	33.21	0.00	6.70	23.53	0.00	1.62	0.10	99.29	0.94	0.33	0.00	0.00	0.00	0.56	1.61
27.70	60.70000	33.24	0.00	6.69	23.54	0.00	1.63	0.10	99.14	0.94	0.33	0.00	0.00	0.00	0.56	1.61
27.60	60.70000	33.26	0.00	6.69	23.54	0.00	1.63	0.10	99.00	0.94	0.33	0.00	0.00	0.00	0.56	1.61
27.50	60.70000	33.28	0.00	6.69	23.55	0.00	1.63	0.10	98.86	0.94	0.33	0.00	0.00	0.00	0.56	1.62
27.40	60.70000	33.31	0.00	6.69	23.55	0.00	1.64	0.10	98.71	0.94	0.33	0.00	0.00	0.00	0.56	1.62
27.30	60.70000	33.33	0.00	6.68	23.56	0.00	1.64	0.10	98.57	0.95	0.33	0.00	0.00	0.00	0.56	1.62
27.20	60.70000	33.35	0.00	6.68	23.56	0.00	1.65	0.10	98.43	0.95	0.33	0.00	0.00	0.00	0.56	1.62
27.10	60.70000	33.37	0.00	6.67	23.57	0.00	1.65	0.10	98.29	0.95	0.33	0.00	0.00	0.00	0.56	1.63
27.00	60.70000	33.40	0.00	6.67	23.57	0.00	1.66	0.10	98.14	0.95	0.33	0.00	0.00	0.00	0.57	1.63
26.90	60.70000	33.42	0.00	6.67	23.58	0.00	1.66	0.10	98.00	0.95	0.33	0.00	0.00	0.00	0.57	1.63
26.80	60.70000	33.44	0.00	6.66	23.58	0.00	1.67	0.10	97.86	0.95	0.33	0.00	0.00	0.00	0.57	1.63
26.70	60.70000	33.47	0.00	6.65	23.58	0.00	1.67	0.10	97.71	0.95	0.33	0.00	0.00	0.00	0.57	1.63
26.60	60.70000	33.49	0.00	6.65	23.59	0.00	1.67	0.09	97.57	0.95	0.33	0.00	0.00	0.00	0.57	1.64
26.50	60.70000	33.51	0.00	6.64	23.59	0.00	1.68	0.09	97.43	0.95	0.33	0.00	0.00	0.00	0.57	1.64
26.40	60.70000	33.53	0.00	6.64	23.59	0.00	1.68	0.09	97.29	0.95	0.34	0.00	0.00	0.00	0.57	1.64

26.30	60.70000	33.56	0.00	6.63	23.59	0.00	1.69	0.09	97.14	0.95	0.34	0.00	0.00	0.00	0.57	1.64
26.20	60.70000	33.58	0.00	6.62	23.59	0.00	1.69	0.09	97.00	0.95	0.34	0.00	0.00	0.00	0.57	1.65
26.10	60.70000	33.60	0.00	6.62	23.60	0.00	1.70	0.09	96.86	0.95	0.34	0.00	0.00	0.00	0.57	1.65
26.00	60.70000	33.63	0.00	6.61	23.60	0.00	1.70	0.09	96.71	0.95	0.34	0.00	0.00	0.00	0.58	1.65
25.90	60.70000	33.65	0.00	6.60	23.60	0.00	1.70	0.09	96.57	0.95	0.34	0.00	0.00	0.00	0.58	1.65
25.80	60.70000	33.67	0.00	6.59	23.60	0.00	1.71	0.09	96.43	0.95	0.34	0.00	0.00	0.00	0.58	1.66
25.70	51.90000	33.69	0.00	6.58	23.60	0.00	1.71	0.09	96.29	0.95	0.34	0.00	0.00	0.00	0.58	1.66
25.60	51.90000	33.72	0.00	6.57	23.60	0.00	1.72	0.09	96.14	0.95	0.34	0.00	0.00	0.00	0.58	1.66
25.50	51.90000	33.74	0.00	6.56	23.60	0.00	1.72	0.09	96.00	0.95	0.34	0.00	0.00	0.00	0.58	1.66
25.40	51.90000	33.76	0.00	6.55	23.60	0.00	1.73	0.09	95.86	0.95	0.34	0.00	0.00	0.00	0.58	1.67
25.30	51.90000	33.79	0.00	6.54	23.60	0.00	1.73	0.09	95.71	0.95	0.34	0.00	0.00	0.00	0.58	1.67
25.20	51.90000	33.81	0.00	6.53	23.60	0.00	1.74	0.09	95.57	0.95	0.34	0.00	0.00	0.00	0.58	1.67
25.10	51.90000	33.83	0.00	6.52	23.60	0.00	1.74	0.09	95.43	0.95	0.34	0.00	0.00	0.00	0.58	1.67
25.00	51.90000	33.85	0.00	6.51	23.60	0.00	1.75	0.09	95.29	0.95	0.34	0.00	0.00	0.00	0.58	1.67
24.90	51.90000	33.88	0.00	6.50	23.60	0.00	1.75	0.09	95.14	0.95	0.34	0.00	0.00	0.00	0.58	1.68
24.80	51.90000	33.90	0.00	6.49	23.60	0.00	1.76	0.09	95.00	0.95	0.34	0.00	0.00	0.00	0.59	1.68
24.70	51.90000	33.85	0.00	6.46	23.62	0.00	1.77	0.09	91.75	0.17	0.40	0.00	0.00	0.00	0.58	7.18
24.60	51.90000	33.80	0.00	6.43	23.63	0.00	1.77	0.09	88.50	0.17	0.40	0.00	0.00	0.00	0.58	7.15
24.50	51.90000	33.75	0.00	6.39	23.65	0.00	1.78	0.09	85.25	0.17	0.39	0.00	0.00	0.00	0.58	7.13
24.40	51.90000	33.70	0.00	6.35	23.67	0.00	1.79	0.09	82.00	0.17	0.39	0.00	0.00	0.00	0.57	7.11
24.30	51.90000	33.65	0.00	6.31	23.69	0.00	1.80	0.09	78.75	0.17	0.39	0.00	0.00	0.00	0.57	7.09
24.20	51.90000	33.60	0.00	6.26	23.70	0.00	1.81	0.09	75.50	0.17	0.39	0.00	0.00	0.00	0.57	7.06
24.10	51.90000	33.55	0.00	6.22	23.72	0.00	1.82	0.09	72.25	0.17	0.39	0.00	0.00	0.00	0.56	7.04
24.00	51.90000	33.50	0.00	6.16	23.74	0.00	1.82	0.09	69.00	0.17	0.39	0.00	0.00	0.00	0.56	7.02
23.90	51.90000	33.45	0.00	6.10	23.76	0.00	1.83	0.09	65.75	0.17	0.39	0.00	0.00	0.00	0.56	7.00
23.80	51.90000	33.40	0.00	6.04	23.78	0.00	1.84	0.09	62.50	0.17	0.39	0.00	0.00	0.00	0.56	6.98
23.70	51.90000	33.35	0.00	5.98	23.79	0.00	1.85	0.09	59.25	0.17	0.39	0.00	0.00	0.00	0.55	6.95
23.60	51.90000	33.30	0.00	5.91	23.81	0.00	1.86	0.09	56.00	0.17	0.39	0.00	0.00	0.00	0.55	6.93
23.50	51.90000	33.25	0.00	5.84	23.83	0.00	1.87	0.09	52.75	0.17	0.39	0.00	0.00	0.00	0.54	6.91
23.40	51.90000	33.20	0.00	5.77	23.85	0.00	1.87	0.09	49.50	0.17	0.39	0.00	0.00	0.00	0.54	6.89
23.30	51.90000	33.15	0.00	5.69	23.87	0.00	1.88	0.09	46.25	0.17	0.38	0.00	0.00	0.00	0.54	6.87
23.20	51.90000	33.10	0.00	5.61	23.89	0.00	1.89	0.09	43.00	0.17	0.38	0.00	0.00	0.00	0.53	6.85
23.10	51.90000	33.05	0.00	5.52	23.91	0.00	1.90	0.09	39.75	0.17	0.38	0.00	0.00	0.00	0.53	6.82
23.00	51.90000	33.00	0.00	5.44	23.93	0.00	1.91	0.09	36.50	0.17	0.38	0.00	0.00	0.00	0.53	6.80
22.90	51.90000	32.95	0.00	5.34	23.95	0.00	1.92	0.09	33.25	0.17	0.38	0.00	0.00	0.00	0.52	6.78
22.80	51.90000	32.90	0.00	5.23	23.99	0.00	1.93	0.09	30.00	0.17	0.38	0.00	0.00	0.00	0.52	6.76
22.70	60.70000	32.90	0.00	4.57	24.51	0.00	2.04	0.09	32.06	0.22	0.38	0.00	0.00	0.00	0.50	6.76
22.60	60.70000	32.89	0.00	4.52	24.51	0.00	2.05	0.09	34.12	0.22	0.38	0.00	0.00	0.00	0.50	6.76
22.50	60.70000	32.89	0.00	4.47	24.52	0.00	2.06	0.09	36.18	0.22	0.38	0.00	0.00	0.00	0.50	6.76
22.40	60.70000	32.89	0.00	4.42	24.52	0.00	2.07	0.09	38.24	0.22	0.38	0.00	0.00	0.00	0.50	6.75
22.30	60.70000	32.89	0.00	4.37	24.53	0.00	2.07	0.09	40.29	0.22	0.38	0.00	0.00	0.00	0.49	6.75
22.20	60.70000	32.88	0.00	4.32	24.53	0.00	2.08	0.09	42.35	0.22	0.38	0.00	0.00	0.00	0.49	6.75
22.10	60.70000	32.88	0.00	4.27	24.54	0.00	2.09	0.10	44.41	0.22	0.38	0.00	0.00	0.00	0.49	6.75
22.00	60.70000	32.88	0.00	4.23	24.54	0.00	2.10	0.10	46.47	0.22	0.38	0.00	0.00	0.00	0.49	6.75
21.90	60.70000	32.87	0.00	4.18	24.55	0.00	2.11	0.10	48.53	0.22	0.38	0.00	0.00	0.00	0.49	6.75
21.80	60.70000	32.87	0.00	4.14	24.55	0.00	2.11	0.10	50.59	0.22	0.38	0.00	0.00	0.00	0.49	6.75
21.70	60.70000	32.87	0.00	4.10	24.56	0.00	2.12	0.10	52.65	0.22	0.38	0.00	0.00	0.00	0.49	6.75
21.60	60.70000	32.86	0.00	4.06	24.56	0.00	2.13	0.10	54.71	0.22	0.38	0.00	0.00	0.00	0.48	6.74
21.50	60.70000	32.86	0.00	4.02	24.57	0.00	2.14	0.10	56.76	0.22	0.38	0.00	0.00	0.00	0.48	6.74
21.40	60.70000	32.86	0.00	3.99	24.57	0.00	2.15	0.10	58.82	0.22	0.38	0.00	0.00	0.00	0.48	6.74

21.30	60.70000	32.86	0.00	3.95	24.58	0.00	2.15	0.10	60.88	0.22	0.38	0.00	0.00	0.00	0.48	6.74
21.20	60.70000	32.85	0.00	3.92	24.58	0.00	2.16	0.10	62.94	0.22	0.38	0.00	0.00	0.00	0.48	6.74
21.10	60.70000	32.85	0.00	3.88	24.59	0.00	2.17	0.10	65.00	0.22	0.38	0.00	0.00	0.00	0.48	6.74
21.00	60.70000	32.85	0.00	3.85	24.59	0.00	2.18	0.10	67.06	0.22	0.38	0.00	0.00	0.00	0.48	6.74
20.90	60.70000	32.84	0.00	3.82	24.60	0.00	2.19	0.10	69.12	0.22	0.38	0.00	0.00	0.00	0.47	6.74
20.80	60.70000	32.84	0.00	3.80	24.60	0.00	2.19	0.10	71.18	0.22	0.38	0.00	0.00	0.00	0.47	6.73
20.70	60.70000	32.84	0.00	3.77	24.61	0.00	2.20	0.10	73.24	0.22	0.38	0.00	0.00	0.00	0.47	6.73
20.60	60.70000	32.84	0.00	3.74	24.61	0.00	2.21	0.10	75.29	0.22	0.38	0.00	0.00	0.00	0.47	6.73
20.50	60.70000	32.83	0.00	3.72	24.62	0.00	2.22	0.10	77.35	0.22	0.38	0.00	0.00	0.00	0.47	6.73
20.40	60.70000	32.83	0.00	3.70	24.62	0.00	2.23	0.10	79.41	0.22	0.38	0.00	0.00	0.00	0.47	6.73
20.30	60.70000	32.83	0.00	3.67	24.63	0.00	2.23	0.10	81.47	0.22	0.38	0.00	0.00	0.00	0.47	6.73
20.20	60.70000	32.82	0.00	3.65	24.63	0.00	2.24	0.10	83.53	0.22	0.38	0.00	0.00	0.00	0.47	6.73
20.10	60.70000	32.82	0.00	3.64	24.64	0.00	2.25	0.10	85.59	0.22	0.38	0.00	0.00	0.00	0.47	6.73
20.00	60.70000	32.82	0.00	3.62	24.64	0.00	2.26	0.10	87.65	0.22	0.38	0.00	0.00	0.00	0.47	6.72
19.90	60.70000	32.81	0.00	3.60	24.65	0.00	2.27	0.10	89.71	0.22	0.38	0.00	0.00	0.00	0.47	6.72
19.80	60.70000	32.81	0.00	3.59	24.65	0.00	2.27	0.10	91.76	0.22	0.38	0.00	0.00	0.00	0.46	6.72
19.70	60.70000	32.81	0.00	3.57	24.66	0.00	2.28	0.10	93.82	0.22	0.38	0.00	0.00	0.00	0.46	6.72
19.60	60.70000	32.81	0.00	3.56	24.66	0.00	2.29	0.10	95.88	0.22	0.38	0.00	0.00	0.00	0.46	6.72
19.50	60.70000	32.80	0.00	3.55	24.67	0.00	2.30	0.10	97.94	0.22	0.38	0.00	0.00	0.00	0.46	6.72
19.40	60.70000	32.80	0.00	3.58	24.62	0.00	2.31	0.10	100.00	0.21	0.38	0.00	0.00	0.00	0.46	6.72
19.30	90.80000	32.80	0.00	4.93	22.43	0.00	2.34	0.10	100.10	0.71	0.29	0.00	0.00	0.00	0.51	3.36
19.20	90.80000	32.79	0.00	4.98	22.79	0.00	2.35	0.10	100.20	0.71	0.29	0.00	0.00	0.00	0.51	3.36
19.10	90.80000	32.79	0.00	5.02	23.15	0.00	2.35	0.10	100.31	0.71	0.29	0.00	0.00	0.00	0.51	3.36
19.00	90.80000	32.78	0.00	5.05	23.50	0.00	2.36	0.10	100.41	0.71	0.29	0.00	0.00	0.00	0.51	3.36
18.90	90.80000	32.78	0.00	5.08	23.85	0.00	2.37	0.10	100.51	0.71	0.29	0.00	0.00	0.00	0.51	3.35
18.80	90.80000	32.78	0.00	5.11	24.20	0.00	2.37	0.10	100.61	0.71	0.29	0.00	0.00	0.00	0.51	3.35
18.70	90.80000	32.77	0.00	5.13	24.54	0.00	2.38	0.10	100.71	0.71	0.29	0.00	0.00	0.00	0.51	3.35
18.60	90.80000	32.77	0.00	5.15	24.88	0.00	2.38	0.10	100.82	0.71	0.29	0.00	0.00	0.00	0.51	3.35
18.50	90.80157	32.76	0.00	5.17	25.22	0.00	2.39	0.10	100.92	0.71	0.29	0.00	0.00	0.00	0.51	3.35
18.40	90.80157	32.76	0.00	5.18	25.56	0.00	2.40	0.10	101.02	0.71	0.29	0.00	0.00	0.00	0.51	3.35
18.30	90.80157	32.76	0.00	5.19	25.89	0.00	2.40	0.10	101.12	0.71	0.29	0.00	0.00	0.00	0.51	3.35
18.20	90.80157	32.75	0.00	5.20	26.22	0.00	2.41	0.10	101.22	0.71	0.29	0.00	0.00	0.00	0.51	3.35
18.10	90.80157	32.75	0.00	5.21	26.54	0.00	2.41	0.10	101.33	0.71	0.29	0.00	0.00	0.00	0.51	3.35
18.00	90.80157	32.74	0.00	5.21	26.87	0.00	2.42	0.10	101.43	0.71	0.29	0.00	0.00	0.00	0.51	3.35
17.90	90.80157	32.74	0.00	5.21	27.19	0.00	2.42	0.10	101.53	0.71	0.29	0.00	0.00	0.00	0.51	3.35
17.80	90.80157	32.73	0.00	5.21	27.50	0.00	2.43	0.10	101.63	0.71	0.29	0.00	0.00	0.00	0.51	3.34
17.70	90.80157	32.73	0.00	5.20	27.82	0.00	2.44	0.10	101.73	0.71	0.29	0.00	0.00	0.00	0.51	3.34
17.60	90.80202	32.73	0.00	5.19	28.13	0.00	2.44	0.10	101.84	0.71	0.29	0.00	0.00	0.00	0.51	3.34
17.50	90.80202	32.72	0.00	5.18	28.44	0.00	2.45	0.10	101.94	0.71	0.29	0.00	0.00	0.00	0.51	3.34
17.40	90.80202	32.72	0.00	5.17	28.74	0.00	2.45	0.10	102.04	0.71	0.29	0.00	0.00	0.00	0.51	3.34
17.30	90.80202	32.71	0.00	5.16	29.05	0.00	2.46	0.10	102.14	0.71	0.29	0.00	0.00	0.00	0.51	3.34
17.20	90.80202	32.71	0.00	5.14	29.35	0.00	2.46	0.11	102.24	0.71	0.29	0.00	0.00	0.00	0.51	3.34
17.10	90.80202	32.71	0.00	5.12	29.64	0.00	2.47	0.11	102.35	0.70	0.29	0.00	0.00	0.00	0.51	3.34
17.00	90.80202	32.70	0.00	5.10	29.94	0.00	2.48	0.11	102.45	0.70	0.29	0.00	0.00	0.00	0.51	3.34
16.90	90.80202	32.70	0.00	5.08	30.23	0.00	2.48	0.11	102.55	0.70	0.29	0.00	0.00	0.00	0.51	3.34
16.80	90.80202	32.69	0.00	5.05	30.52	0.00	2.49	0.11	102.65	0.70	0.29	0.00	0.00	0.00	0.50	3.34
16.70	90.80202	32.69	0.00	5.03	30.81	0.00	2.49	0.11	102.76	0.70	0.29	0.00	0.00	0.00	0.50	3.34
16.60	90.80202	32.69	0.00	5.00	31.09	0.00	2.50	0.11	102.86	0.70	0.29	0.00	0.00	0.00	0.50	3.33
16.50	90.80202	32.68	0.00	4.97	31.37	0.00	2.51	0.11	102.96	0.70	0.29	0.00	0.00	0.00	0.50	3.33
16.40	90.80202	32.68	0.00	4.94	31.65	0.00	2.51	0.11	103.06	0.70	0.29	0.00	0.00	0.00	0.50	3.33

16.30	90.80202	32.67	0.00	4.91	31.93	0.00	2.52	0.11	103.16	0.70	0.29	0.00	0.00	0.00	0.50	3.33
16.20	90.80202	32.67	0.00	4.87	32.20	0.00	2.52	0.11	103.27	0.70	0.29	0.00	0.00	0.00	0.50	3.33
16.10	90.80202	32.67	0.00	4.84	32.48	0.00	2.53	0.11	103.37	0.70	0.29	0.00	0.00	0.00	0.50	3.33
16.00	90.80202	32.66	0.00	4.80	32.74	0.00	2.53	0.11	103.47	0.70	0.29	0.00	0.00	0.00	0.50	3.33
15.90	90.80202	32.66	0.00	4.76	33.01	0.00	2.54	0.11	103.57	0.70	0.29	0.00	0.00	0.00	0.50	3.33
15.80	90.80202	32.65	0.00	4.73	33.28	0.00	2.55	0.11	103.67	0.70	0.29	0.00	0.00	0.00	0.49	3.33
15.70	90.80202	32.65	0.00	4.69	33.54	0.00	2.55	0.11	103.78	0.70	0.29	0.00	0.00	0.00	0.49	3.33
15.60	90.80202	32.64	0.00	4.64	33.80	0.00	2.56	0.11	103.88	0.70	0.29	0.00	0.00	0.00	0.49	3.33
15.50	90.80202	32.64	0.00	4.60	34.06	0.00	2.56	0.11	103.98	0.70	0.29	0.00	0.00	0.00	0.49	3.33
15.40	90.80202	32.64	0.00	4.56	34.31	0.00	2.57	0.11	104.08	0.70	0.29	0.00	0.00	0.00	0.49	3.32
15.30	90.80202	32.63	0.00	4.51	34.56	0.00	2.57	0.11	104.18	0.70	0.29	0.00	0.00	0.00	0.49	3.32
15.20	90.80202	32.63	0.00	4.47	34.82	0.00	2.58	0.11	104.29	0.70	0.29	0.00	0.00	0.00	0.49	3.32
15.10	90.80202	32.62	0.00	4.42	35.06	0.00	2.58	0.11	104.39	0.70	0.29	0.00	0.00	0.00	0.49	3.32
15.00	90.80202	32.62	0.00	4.37	35.31	0.00	2.59	0.11	104.49	0.70	0.29	0.00	0.00	0.00	0.48	3.32
14.90	90.80202	32.62	0.00	4.33	35.55	0.00	2.60	0.11	104.59	0.70	0.29	0.00	0.00	0.00	0.48	3.32
14.80	90.80202	32.61	0.00	4.28	35.80	0.00	2.60	0.11	104.69	0.70	0.29	0.00	0.00	0.00	0.48	3.32
14.70	90.80202	32.61	0.00	4.23	36.04	0.00	2.61	0.11	104.80	0.70	0.29	0.00	0.00	0.00	0.48	3.32
14.60	90.80202	32.60	0.00	4.18	36.27	0.00	2.61	0.11	104.90	0.70	0.29	0.00	0.00	0.00	0.48	3.32
14.50	90.80202	32.60	0.00	4.12	36.50	0.00	2.62	0.11	105.00	0.70	0.29	0.00	0.00	0.00	0.48	3.32
14.40	90.80202	32.60	0.00	3.99	35.80	0.00	2.61	0.12	104.53	0.44	0.29	0.00	0.00	0.00	0.47	3.32
14.30	90.80202	32.60	0.00	3.87	35.13	0.00	2.60	0.12	104.05	0.44	0.29	0.00	0.00	0.00	0.47	3.32
14.20	90.80202	32.60	0.00	3.77	34.47	0.00	2.60	0.12	103.58	0.44	0.29	0.00	0.00	0.00	0.46	3.32
14.10	90.80202	32.60	0.00	3.70	33.84	0.00	2.59	0.12	103.10	0.44	0.29	0.00	0.00	0.00	0.46	3.32
14.00	90.80202	32.60	0.00	3.64	33.23	0.00	2.58	0.12	102.63	0.44	0.29	0.00	0.00	0.00	0.46	3.32
13.90	90.80202	32.59	0.00	3.59	32.63	0.00	2.58	0.12	102.16	0.44	0.29	0.00	0.00	0.00	0.46	3.32
13.80	90.80202	32.59	0.00	3.57	32.06	0.00	2.57	0.12	101.68	0.44	0.29	0.00	0.00	0.00	0.46	3.32
13.70	90.80202	32.59	0.00	3.55	31.50	0.00	2.56	0.12	101.21	0.44	0.29	0.00	0.00	0.00	0.46	3.32
13.60	90.80202	32.59	0.00	3.55	30.96	0.00	2.56	0.13	100.73	0.44	0.29	0.00	0.00	0.00	0.46	3.32
13.50	90.80202	32.59	0.00	3.56	30.43	0.00	2.55	0.13	100.26	0.44	0.29	0.00	0.00	0.00	0.46	3.31
13.40	90.80202	32.59	0.00	3.58	29.92	0.00	2.54	0.13	99.78	0.44	0.29	0.00	0.00	0.00	0.46	3.31
13.30	90.80202	32.59	0.00	3.60	29.43	0.00	2.54	0.13	99.31	0.44	0.29	0.00	0.00	0.00	0.46	3.31
13.20	90.80202	32.59	0.00	3.64	28.95	0.00	2.53	0.13	98.84	0.44	0.29	0.00	0.00	0.00	0.46	3.31
13.10	90.80202	32.59	0.00	3.69	28.49	0.00	2.52	0.13	98.36	0.44	0.29	0.00	0.00	0.00	0.46	3.31
13.00	90.80202	32.59	0.00	3.74	28.04	0.00	2.52	0.13	97.89	0.44	0.29	0.00	0.00	0.00	0.46	3.31
12.90	90.80202	32.59	0.00	3.79	27.60	0.00	2.51	0.13	97.41	0.44	0.29	0.00	0.00	0.00	0.46	3.31
12.80	90.80202	32.59	0.00	3.86	27.18	0.00	2.50	0.13	96.94	0.44	0.29	0.00	0.00	0.00	0.47	3.31
12.70	90.80202	32.58	0.00	3.92	26.77	0.00	2.50	0.13	96.47	0.44	0.29	0.00	0.00	0.00	0.47	3.31
12.60	90.80202	32.58	0.00	4.00	26.38	0.00	2.49	0.13	95.99	0.44	0.29	0.00	0.00	0.00	0.47	3.31
12.50	90.80202	32.58	0.00	4.07	25.99	0.00	2.48	0.13	95.52	0.44	0.29	0.00	0.00	0.00	0.47	3.31
12.40	90.80202	32.58	0.00	4.15	25.62	0.00	2.48	0.13	95.04	0.44	0.29	0.00	0.00	0.00	0.48	3.31
12.30	90.80202	32.58	0.00	4.23	25.26	0.00	2.47	0.13	94.57	0.44	0.29	0.00	0.00	0.00	0.48	3.31
12.20	90.80202	32.58	0.00	4.31	24.91	0.00	2.46	0.13	94.09	0.44	0.29	0.00	0.00	0.00	0.48	3.31
12.10	90.80202	32.58	0.00	4.40	24.57	0.00	2.46	0.13	93.62	0.44	0.29	0.00	0.00	0.00	0.48	3.31
12.00	90.80202	32.58	0.00	4.48	24.25	0.00	2.45	0.13	93.15	0.44	0.29	0.00	0.00	0.00	0.49	3.31
11.90	90.80202	32.58	0.00	4.57	23.93	0.00	2.45	0.13	92.67	0.44	0.29	0.00	0.00	0.00	0.49	3.31
11.80	90.80202	32.58	0.00	4.66	23.62	0.00	2.44	0.13	92.20	0.44	0.29	0.00	0.00	0.00	0.49	3.31
11.70	90.80327	32.58	0.00	4.74	23.32	0.00	2.43	0.13	91.72	0.44	0.29	0.00	0.00	0.00	0.49	3.31
11.60	90.80327	32.58	0.00	4.83	23.03	0.00	2.43	0.13	91.25	0.44	0.29	0.00	0.00	0.00	0.49	3.31
11.50	90.80327	32.57	0.00	4.92	22.75	0.00	2.42	0.13	90.78	0.44	0.29	0.00	0.00	0.00	0.50	3.31
11.40	90.80327	32.57	0.00	5.01	22.48	0.00	2.41	0.13	90.30	0.44	0.29	0.00	0.00	0.00	0.50	3.31

11.30	90.80327	32.57	0.00	5.09	22.21	0.00	2.41	0.13	89.83	0.44	0.29	0.00	0.00	0.00	0.50	3.31
11.20	90.80327	32.57	0.00	5.18	21.96	0.00	2.40	0.13	89.35	0.44	0.29	0.00	0.00	0.00	0.50	3.31
11.10	90.80327	32.57	0.00	5.27	21.71	0.00	2.39	0.13	88.88	0.44	0.29	0.00	0.00	0.00	0.50	3.31
11.00	90.80327	32.57	0.00	5.35	21.47	0.00	2.39	0.13	88.41	0.44	0.29	0.00	0.00	0.00	0.51	3.31
10.90	90.80327	32.57	0.00	5.43	21.24	0.00	2.38	0.13	87.93	0.44	0.28	0.00	0.00	0.00	0.51	3.31
10.80	90.80327	32.57	0.00	5.51	21.01	0.00	2.38	0.13	87.46	0.44	0.28	0.00	0.00	0.00	0.51	3.31
10.70	90.80327	32.57	0.00	5.59	20.79	0.00	2.37	0.13	86.98	0.44	0.28	0.00	0.00	0.00	0.51	3.31
10.60	90.80327	32.57	0.00	5.67	20.58	0.00	2.36	0.13	86.51	0.44	0.28	0.00	0.00	0.00	0.51	3.31
10.50	90.80327	32.57	0.00	5.74	20.38	0.00	2.36	0.13	86.03	0.44	0.28	0.00	0.00	0.00	0.51	3.31
10.40	90.80327	32.56	0.00	5.82	20.18	0.00	2.35	0.13	85.56	0.44	0.28	0.00	0.00	0.00	0.52	3.31
10.30	90.80327	32.56	0.00	5.89	19.98	0.00	2.35	0.13	85.09	0.44	0.28	0.00	0.00	0.00	0.52	3.31
10.20	90.80327	32.56	0.00	5.96	19.80	0.00	2.34	0.12	84.61	0.44	0.28	0.00	0.00	0.00	0.52	3.31
10.10	90.80327	32.56	0.00	6.03	19.62	0.00	2.33	0.12	84.14	0.44	0.28	0.00	0.00	0.00	0.52	3.31
10.00	90.80327	32.56	0.00	6.09	19.44	0.00	2.33	0.12	83.66	0.44	0.28	0.00	0.00	0.00	0.52	3.31
9.90	90.80327	32.56	0.00	6.15	19.27	0.00	2.32	0.12	83.19	0.44	0.28	0.00	0.00	0.00	0.52	3.31
9.80	90.80327	32.56	0.00	6.21	19.10	0.00	2.31	0.12	82.72	0.44	0.28	0.00	0.00	0.00	0.52	3.31
9.70	90.80327	32.56	0.00	6.27	18.94	0.00	2.31	0.12	82.24	0.44	0.28	0.00	0.00	0.00	0.52	3.31
9.60	90.80327	32.56	0.00	6.33	18.79	0.00	2.30	0.12	81.77	0.44	0.28	0.00	0.00	0.00	0.52	3.31
9.50	90.80327	32.56	0.00	6.38	18.64	0.00	2.30	0.12	81.29	0.44	0.28	0.00	0.00	0.00	0.52	3.31
9.40	90.80327	32.56	0.00	6.43	18.49	0.00	2.29	0.12	80.82	0.44	0.28	0.00	0.00	0.00	0.53	3.31
9.30	90.80327	32.56	0.00	6.48	18.35	0.00	2.28	0.12	80.34	0.44	0.28	0.00	0.00	0.00	0.53	3.31
9.20	90.80327	32.55	0.00	6.52	18.22	0.00	2.28	0.12	79.87	0.44	0.28	0.00	0.00	0.00	0.53	3.31
9.10	90.80327	32.55	0.00	6.57	18.08	0.00	2.27	0.12	79.40	0.44	0.28	0.00	0.00	0.00	0.53	3.31
9.00	90.80327	32.55	0.00	6.61	17.96	0.00	2.27	0.12	78.92	0.44	0.28	0.00	0.00	0.00	0.53	3.31
8.90	90.80327	32.55	0.00	6.65	17.83	0.00	2.26	0.12	78.45	0.44	0.28	0.00	0.00	0.00	0.53	3.31
8.80	90.80327	32.55	0.00	6.68	17.71	0.00	2.26	0.12	77.97	0.44	0.28	0.00	0.00	0.00	0.53	3.31
8.70	90.80327	32.55	0.00	6.71	17.59	0.00	2.25	0.12	77.50	0.44	0.28	0.00	0.00	0.00	0.53	3.31
8.60	90.80327	32.55	0.00	6.75	17.48	0.00	2.24	0.12	77.03	0.44	0.28	0.00	0.00	0.00	0.53	3.31
8.50	90.80327	32.55	0.00	6.77	17.37	0.00	2.24	0.12	76.55	0.44	0.28	0.00	0.00	0.00	0.53	3.31
8.40	90.80327	32.55	0.00	6.80	17.26	0.00	2.23	0.12	76.08	0.44	0.28	0.00	0.00	0.00	0.53	3.31
8.30	90.80327	32.55	0.00	6.82	17.16	0.00	2.23	0.12	75.60	0.44	0.28	0.00	0.00	0.00	0.53	3.31
8.20	90.80327	32.55	0.00	6.84	17.06	0.00	2.22	0.11	75.13	0.44	0.28	0.00	0.00	0.00	0.53	3.31
8.10	90.80327	32.54	0.00	6.86	16.96	0.00	2.21	0.11	74.66	0.44	0.28	0.00	0.00	0.00	0.53	3.31
8.00	90.80327	32.54	0.00	6.88	16.87	0.00	2.21	0.11	74.18	0.44	0.28	0.00	0.00	0.00	0.53	3.30
7.90	90.80327	32.54	0.00	6.89	16.78	0.00	2.20	0.11	73.71	0.44	0.28	0.00	0.00	0.00	0.53	3.30
7.80	90.80327	32.54	0.00	6.90	16.69	0.00	2.20	0.11	73.23	0.44	0.28	0.00	0.00	0.00	0.53	3.30
7.70	90.80327	32.54	0.00	6.91	16.60	0.00	2.19	0.11	72.76	0.44	0.28	0.00	0.00	0.00	0.53	3.30
7.60	90.80327	32.54	0.00	6.92	16.52	0.00	2.19	0.11	72.28	0.44	0.28	0.00	0.00	0.00	0.53	3.30
7.50	90.80327	32.54	0.00	6.92	16.44	0.00	2.18	0.11	71.81	0.44	0.28	0.00	0.00	0.00	0.53	3.30
7.40	90.80327	32.54	0.00	6.92	16.36	0.00	2.17	0.11	71.34	0.44	0.28	0.00	0.00	0.00	0.53	3.30
7.30	90.80327	32.54	0.00	6.92	16.29	0.00	2.17	0.11	70.86	0.44	0.28	0.00	0.00	0.00	0.53	3.30
7.20	90.80327	32.54	0.00	6.92	16.22	0.00	2.16	0.11	70.39	0.44	0.28	0.00	0.00	0.00	0.53	3.30
7.10	90.80327	32.54	0.00	6.92	16.14	0.00	2.16	0.11	69.91	0.44	0.28	0.00	0.00	0.00	0.53	3.30
7.00	90.80327	32.54	0.00	6.91	16.08	0.00	2.15	0.11	69.44	0.44	0.28	0.00	0.00	0.00	0.53	3.30
6.90	90.80327	32.53	0.00	6.90	16.01	0.00	2.15	0.11	68.97	0.44	0.28	0.00	0.00	0.00	0.53	3.30
6.80	90.80327	32.53	0.00	6.89	15.94	0.00	2.14	0.11	68.49	0.44	0.28	0.00	0.00	0.00	0.53	3.30
6.70	90.80327	32.53	0.00	6.88	15.88	0.00	2.14	0.11	68.02	0.44	0.28	0.00	0.00	0.00	0.53	3.30
6.60	90.80327	32.53	0.00	6.86	15.82	0.00	2.13	0.11	67.54	0.44	0.28	0.00	0.00	0.00	0.53	3.30
6.50	90.80327	32.53	0.00	6.85	15.76	0.00	2.12	0.11	67.07	0.44	0.28	0.00	0.00	0.00	0.53	3.30
6.40	90.80327	32.53	0.00	6.83	15.71	0.00	2.12	0.11	66.59	0.44	0.28	0.00	0.00	0.00	0.53	3.30

6.30	90.80327	32.53	0.00	6.81	15.65	0.00	2.11	0.11	66.12	0.44	0.28	0.00	0.00	0.00	0.53	3.30
6.20	90.80327	32.53	0.00	6.79	15.60	0.00	2.11	0.11	65.65	0.44	0.28	0.00	0.00	0.00	0.53	3.30
6.10	90.81248	32.53	0.00	6.76	15.55	0.00	2.10	0.11	65.17	0.44	0.28	0.00	0.00	0.00	0.53	3.30
6.00	90.81248	32.53	0.00	6.74	15.50	0.00	2.10	0.11	64.70	0.44	0.28	0.00	0.00	0.00	0.53	3.30
5.90	90.81248	32.53	0.00	6.71	15.45	0.00	2.09	0.11	64.22	0.44	0.28	0.00	0.00	0.00	0.53	3.30
5.80	90.81248	32.53	0.00	6.68	15.40	0.00	2.09	0.11	63.75	0.44	0.28	0.00	0.00	0.00	0.53	3.30
5.70	90.81248	32.52	0.00	6.65	15.35	0.00	2.08	0.11	63.28	0.44	0.28	0.00	0.00	0.00	0.53	3.30
5.60	90.81248	32.52	0.00	6.62	15.31	0.00	2.08	0.11	62.80	0.44	0.28	0.00	0.00	0.00	0.53	3.30
5.50	90.81248	32.52	0.00	6.58	15.27	0.00	2.07	0.11	62.33	0.44	0.28	0.00	0.00	0.00	0.53	3.30
5.40	90.81248	32.52	0.00	6.55	15.23	0.00	2.07	0.11	61.85	0.44	0.28	0.00	0.00	0.00	0.53	3.30
5.30	90.81248	32.52	0.00	6.51	15.19	0.00	2.06	0.11	61.38	0.44	0.28	0.00	0.00	0.00	0.53	3.30
5.20	90.81248	32.52	0.00	6.47	15.15	0.00	2.05	0.10	60.91	0.44	0.28	0.00	0.00	0.00	0.52	3.30
5.10	90.81248	32.52	0.00	6.43	15.11	0.00	2.05	0.10	60.43	0.44	0.28	0.00	0.00	0.00	0.52	3.30
5.00	90.81248	32.52	0.00	6.39	15.07	0.00	2.04	0.10	59.96	0.44	0.28	0.00	0.00	0.00	0.52	3.30
4.90	90.81248	32.52	0.00	6.35	15.04	0.00	2.04	0.10	59.48	0.44	0.28	0.00	0.00	0.00	0.52	3.30
4.80	90.81248	32.52	0.00	6.31	15.00	0.00	2.03	0.10	59.01	0.44	0.28	0.00	0.00	0.00	0.52	3.30
4.70	90.81248	32.52	0.00	6.26	14.97	0.00	2.03	0.10	58.53	0.44	0.28	0.00	0.00	0.00	0.52	3.30
4.60	90.81248	32.51	0.00	6.22	14.94	0.00	2.02	0.10	58.06	0.44	0.28	0.00	0.00	0.00	0.52	3.30
4.50	90.81248	32.51	0.00	6.17	14.91	0.00	2.02	0.10	57.59	0.44	0.28	0.00	0.00	0.00	0.52	3.30
4.40	90.81248	32.51	0.00	6.12	14.88	0.00	2.01	0.10	57.11	0.44	0.28	0.00	0.00	0.00	0.52	3.30
4.30	90.81248	32.51	0.00	6.07	14.85	0.00	2.01	0.10	56.64	0.44	0.28	0.00	0.00	0.00	0.52	3.30
4.20	90.81248	32.51	0.00	6.02	14.82	0.00	2.00	0.10	56.16	0.44	0.28	0.00	0.00	0.00	0.52	3.30
4.10	90.81248	32.51	0.00	5.97	14.79	0.00	2.00	0.10	55.69	0.44	0.28	0.00	0.00	0.00	0.52	3.30
4.00	90.81248	32.51	0.00	5.91	14.76	0.00	1.99	0.10	55.22	0.44	0.28	0.00	0.00	0.00	0.51	3.30
3.90	90.81248	32.51	0.00	5.86	14.74	0.00	1.99	0.10	54.74	0.44	0.28	0.00	0.00	0.00	0.51	3.30
3.80	90.81248	32.51	0.00	5.80	14.71	0.00	1.98	0.10	54.27	0.44	0.28	0.00	0.00	0.00	0.51	3.30
3.70	90.81248	32.51	0.00	5.75	14.69	0.00	1.98	0.10	53.79	0.44	0.28	0.00	0.00	0.00	0.51	3.30
3.60	90.81248	32.51	0.00	5.69	14.67	0.00	1.97	0.10	53.32	0.44	0.28	0.00	0.00	0.00	0.51	3.30
3.50	90.81248	32.51	0.00	5.63	14.64	0.00	1.97	0.10	52.84	0.44	0.28	0.00	0.00	0.00	0.51	3.30
3.40	90.81248	32.50	0.00	5.57	14.62	0.00	1.96	0.10	52.37	0.44	0.28	0.00	0.00	0.00	0.51	3.30
3.30	90.81248	32.50	0.00	5.51	14.60	0.00	1.96	0.10	51.90	0.44	0.28	0.00	0.00	0.00	0.51	3.30
3.20	90.81248	32.50	0.00	5.45	14.58	0.00	1.95	0.10	51.42	0.44	0.28	0.00	0.00	0.00	0.51	3.30
3.10	90.81248	32.50	0.00	5.39	14.56	0.00	1.95	0.10	50.95	0.44	0.28	0.00	0.00	0.00	0.50	3.30
3.00	90.81248	32.50	0.00	5.32	14.54	0.00	1.94	0.10	50.47	0.44	0.28	0.00	0.00	0.00	0.50	3.30
2.90	90.81248	32.50	0.00	5.26	14.52	0.00	1.94	0.10	50.00	0.44	0.28	0.00	0.00	0.00	0.50	3.30
2.80	90.81248	32.50	0.00	5.22	14.50	0.00	1.94	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.50	2.86
2.70	90.81248	32.50	0.00	5.18	14.48	0.00	1.93	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.50	2.86
2.60	90.81248	32.50	0.00	5.14	14.47	0.00	1.93	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.50	2.86
2.50	90.81248	32.50	0.00	5.10	14.45	0.00	1.93	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.50	2.86
2.40	90.81248	32.50	0.00	5.06	14.43	0.00	1.93	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.50	2.86
2.30	90.81248	32.50	0.00	5.02	14.41	0.00	1.93	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.50	2.86
2.20	90.81248	32.50	0.00	4.98	14.40	0.00	1.93	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.50	2.86
2.10	90.81248	32.50	0.00	4.94	14.38	0.00	1.93	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.49	2.86
2.00	90.81248	32.50	0.00	4.90	14.36	0.00	1.93	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.49	2.86
1.90	90.81248	32.50	0.00	4.87	14.35	0.00	1.93	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.49	2.86
1.80	90.81248	32.50	0.00	4.83	14.33	0.00	1.93	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.49	2.86
1.70	90.81248	32.50	0.00	4.79	14.31	0.00	1.93	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.49	2.86
1.60	90.81248	32.50	0.00	4.76	14.30	0.00	1.92	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.49	2.86
1.50	90.81248	32.50	0.00	4.72	14.28	0.00	1.92	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.49	2.86
1.40	90.81248	32.50	0.00	4.69	14.26	0.00	1.92	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.49	2.86

1.30	90.81248	32.50	0.00	4.65	14.25	0.00	1.92	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.49	2.86
1.20	90.81248	32.50	0.00	4.62	14.23	0.00	1.92	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.49	2.86
1.10	90.81248	32.50	0.00	4.58	14.22	0.00	1.92	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.49	2.86
1.00	90.81248	32.50	0.00	4.55	14.20	0.00	1.92	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.48	2.86
0.90	90.81248	32.50	0.00	4.52	14.18	0.00	1.92	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.48	2.86
0.80	90.81248	32.50	0.00	4.49	14.17	0.00	1.92	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.48	2.86
0.70	90.81248	32.50	0.00	4.46	14.15	0.00	1.92	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.48	2.86
0.60	90.81256	32.50	0.00	4.42	14.14	0.00	1.92	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.48	2.86
0.50	90.81256	32.50	0.00	4.39	14.12	0.00	1.91	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.48	2.86
0.40	90.81256	32.50	0.00	4.36	14.11	0.00	1.91	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.48	2.86
0.30	90.81256	32.50	0.00	4.33	14.09	0.00	1.91	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.48	2.86
0.20	90.81256	32.50	0.00	4.30	14.08	0.00	1.91	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.48	2.86
0.10	90.81256	32.50	0.00	4.27	14.06	0.00	1.91	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.48	2.86
0.00	90.81256	32.50	0.00	4.27	13.61	0.00	1.85	0.10	50.00	0.48	0.41	0.00	0.00	0.00	0.48	2.86

CONDENSED CAPSULE SUMMARY FOR Fourmile Bayou Oxbow

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3 NH3	CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	8.80000	33.90	0.00	6.80	25.50	0.00	1.70	0.10	95.00							
4.10	8.80000	33.88	0.00	6.67	25.52	0.00	1.72	0.10	93.45	0.36	0.40	0.00	0.00	0.00	0.59	7.19
4.00	8.80000	33.85	0.00	6.55	25.55	0.00	1.75	0.10	91.90	0.36	0.40	0.00	0.00	0.00	0.58	7.18
3.90	8.80000	33.83	0.00	6.42	25.57	0.00	1.77	0.10	90.36	0.36	0.40	0.00	0.00	0.00	0.58	7.17
3.80	8.80000	33.80	0.00	6.29	25.59	0.00	1.80	0.10	88.81	0.36	0.40	0.00	0.00	0.00	0.58	7.16
3.70	8.80000	33.78	0.00	6.16	25.62	0.00	1.82	0.10	87.26	0.36	0.40	0.00	0.00	0.00	0.57	7.15
3.60	8.80000	33.76	0.00	6.02	25.64	0.00	1.84	0.10	85.71	0.36	0.40	0.00	0.00	0.00	0.57	7.13
3.50	8.80000	33.73	0.00	5.88	25.66	0.00	1.87	0.10	84.17	0.36	0.39	0.00	0.00	0.00	0.57	7.12
3.40	8.80000	33.71	0.00	5.74	25.69	0.00	1.89	0.10	82.62	0.36	0.39	0.00	0.00	0.00	0.56	7.11
3.30	8.80000	33.69	0.00	5.59	25.71	0.00	1.91	0.10	81.07	0.36	0.39	0.00	0.00	0.00	0.56	7.10
3.20	8.80000	33.66	0.00	5.45	25.73	0.00	1.94	0.10	79.52	0.36	0.39	0.00	0.00	0.00	0.55	7.09
3.10	8.80000	33.64	0.00	5.30	25.76	0.00	1.96	0.10	77.98	0.36	0.39	0.00	0.00	0.00	0.55	7.08
3.00	8.80000	33.61	0.00	5.14	25.78	0.00	1.98	0.10	76.43	0.36	0.39	0.00	0.00	0.00	0.55	7.07
2.90	8.80000	33.59	0.00	4.99	25.81	0.00	2.01	0.10	74.88	0.36	0.39	0.00	0.00	0.00	0.54	7.06
2.80	8.80000	33.57	0.00	4.83	25.83	0.00	2.03	0.10	73.33	0.36	0.39	0.00	0.00	0.00	0.54	7.05
2.70	8.80000	33.54	0.00	4.67	25.85	0.00	2.05	0.10	71.79	0.36	0.39	0.00	0.00	0.00	0.53	7.04
2.60	8.80000	33.52	0.00	4.51	25.88	0.00	2.08	0.10	70.24	0.36	0.39	0.00	0.00	0.00	0.52	7.03
2.50	8.80000	33.50	0.00	4.34	25.90	0.00	2.10	0.10	68.69	0.36	0.39	0.00	0.00	0.00	0.52	7.02
2.40	8.80000	33.47	0.00	4.18	25.92	0.00	2.13	0.10	67.14	0.36	0.39	0.00	0.00	0.00	0.51	7.01
2.30	8.80000	33.45	0.00	4.01	25.95	0.00	2.15	0.10	65.60	0.36	0.39	0.00	0.00	0.00	0.50	7.00
2.20	8.80000	33.42	0.00	3.83	25.97	0.00	2.17	0.10	64.05	0.36	0.39	0.00	0.00	0.00	0.50	6.99
2.10	8.80000	33.40	0.00	3.66	26.00	0.00	2.20	0.10	62.50	0.36	0.39	0.00	0.00	0.00	0.49	6.98
2.00	8.80000	33.38	0.00	3.48	26.02	0.00	2.22	0.10	60.95	0.36	0.39	0.00	0.00	0.00	0.48	6.97
1.90	8.80000	33.35	0.00	3.31	26.05	0.00	2.24	0.10	59.40	0.36	0.39	0.00	0.00	0.00	0.47	6.96
1.80	8.80000	33.33	0.00	3.13	26.07	0.00	2.27	0.10	57.86	0.36	0.39	0.00	0.00	0.00	0.46	6.94
1.70	8.80000	33.30	0.00	2.94	26.09	0.00	2.29	0.10	56.31	0.36	0.39	0.00	0.00	0.00	0.45	6.93
1.60	8.80000	33.28	0.00	2.76	26.12	0.00	2.31	0.10	54.76	0.36	0.39	0.00	0.00	0.00	0.44	6.92
1.50	8.80000	33.26	0.00	2.57	26.14	0.00	2.34	0.10	53.21	0.36	0.39	0.00	0.00	0.00	0.43	6.91

1.40	8.80000	33.23	0.00	2.38	26.17	0.00	2.36	0.10	51.67	0.36	0.39	0.00	0.00	0.00	0.42	6.90
1.30	8.80000	33.21	0.00	2.19	26.19	0.00	2.38	0.10	50.12	0.36	0.39	0.00	0.00	0.00	0.40	6.89
1.20	8.80000	33.19	0.00	2.00	26.22	0.00	2.41	0.10	48.57	0.36	0.38	0.00	0.00	0.00	0.39	6.88
1.10	8.80000	33.16	0.00	1.84	26.27	0.00	2.43	0.10	47.02	0.36	0.35	0.00	0.00	0.00	0.29	6.31
1.00	8.80000	33.14	0.00	1.70	26.33	0.00	2.45	0.10	45.48	0.36	0.33	0.00	0.00	0.00	0.22	5.82
0.90	8.80000	33.11	0.00	1.58	26.42	0.00	2.48	0.11	43.93	0.36	0.30	0.00	0.00	0.00	0.16	5.40
0.80	8.80000	33.09	0.00	1.47	26.52	0.00	2.50	0.11	42.38	0.35	0.28	0.00	0.00	0.00	0.13	5.03
0.70	8.80000	33.07	0.00	1.38	26.63	0.00	2.52	0.11	40.83	0.35	0.26	0.00	0.00	0.00	0.10	4.71
0.60	8.80000	33.04	0.00	1.30	26.75	0.00	2.54	0.11	39.29	0.35	0.25	0.00	0.00	0.00	0.08	4.43
0.50	8.80000	33.02	0.00	1.23	26.89	0.00	2.57	0.11	37.74	0.35	0.23	0.00	0.00	0.00	0.06	4.19
0.40	8.80000	33.00	0.00	1.17	27.03	0.00	2.59	0.11	36.19	0.35	0.22	0.00	0.00	0.00	0.05	3.97
0.30	8.80000	32.97	0.00	1.11	27.18	0.00	2.61	0.12	34.64	0.35	0.21	0.00	0.00	0.00	0.04	3.77
0.20	8.80000	32.95	0.00	1.06	27.33	0.00	2.64	0.12	33.10	0.35	0.20	0.00	0.00	0.00	0.04	3.59
0.10	8.80000	32.92	0.00	1.01	27.49	0.00	2.66	0.12	31.55	0.35	0.19	0.00	0.00	0.00	0.03	3.43
0.00	8.80000	32.90	0.00	1.06	27.55	0.00	2.66	0.12	30.00	0.35	0.20	0.00	0.00	0.00	0.04	3.59

EXPANDED CAPSULE SUMMARY FOR Grassy Lake

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	NH3 SETT	DECA SETT	DECA	SOD
		km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	g/m²/d
	HDWTR		60.700	33.1	0.0	6.7	23.5	0.0	1.6	0.1	100.0												
1 GL	1	28.20	60.700	33.1	0.0	6.7	23.5	0.0	1.6	0.1	99.9	0.0	1.01	1343.0	0.045	0.045	7.2	0.942	0.33	0.00	0.00	0.00	0.55	1.60
2 GL	1	28.10	60.700	33.1	0.0	6.7	23.5	0.0	1.6	0.1	99.7	0.0	1.01	1343.0	0.045	0.045	7.2	0.942	0.33	0.00	0.00	0.00	0.56	1.60
3 GL	1	28.00	60.700	33.2	0.0	6.7	23.5	0.0	1.6	0.1	99.6	0.0	1.01	1343.0	0.045	0.045	7.2	0.943	0.33	0.00	0.00	0.00	0.56	1.60
4 GL	1	27.90	60.700	33.2	0.0	6.7	23.5	0.0	1.6	0.1	99.4	0.0	1.01	1343.0	0.045	0.045	7.2	0.943	0.33	0.00	0.00	0.00	0.56	1.61
5 GL	1	27.80	60.700	33.2	0.0	6.7	23.5	0.0	1.6	0.1	99.3	0.0	1.01	1343.0	0.045	0.045	7.2	0.943	0.33	0.00	0.00	0.00	0.56	1.61
6 GL	1	27.70	60.700	33.2	0.0	6.7	23.5	0.0	1.6	0.1	99.1	0.0	1.01	1343.0	0.045	0.045	7.2	0.944	0.33	0.00	0.00	0.00	0.56	1.61
7 GL	1	27.60	60.700	33.3	0.0	6.7	23.5	0.0	1.6	0.1	99.0	0.0	1.01	1343.0	0.045	0.045	7.2	0.944	0.33	0.00	0.00	0.00	0.56	1.61
8 GL	1	27.50	60.700	33.3	0.0	6.7	23.5	0.0	1.6	0.1	98.9	0.0	1.01	1343.0	0.045	0.045	7.1	0.944	0.33	0.00	0.00	0.00	0.56	1.62
9 GL	1	27.40	60.700	33.3	0.0	6.7	23.6	0.0	1.6	0.1	98.7	0.0	1.01	1343.0	0.045	0.045	7.1	0.945	0.33	0.00	0.00	0.00	0.56	1.62
10 GL	1	27.30	60.700	33.3	0.0	6.7	23.6	0.0	1.6	0.1	98.6	0.0	1.01	1343.0	0.045	0.045	7.1	0.945	0.33	0.00	0.00	0.00	0.56	1.62
11 GL	1	27.20	60.700	33.4	0.0	6.7	23.6	0.0	1.6	0.1	98.4	0.0	1.01	1343.0	0.045	0.045	7.1	0.945	0.33	0.00	0.00	0.00	0.56	1.62
12 GL	1	27.10	60.700	33.4	0.0	6.7	23.6	0.0	1.7	0.1	98.3	0.0	1.01	1343.0	0.045	0.045	7.1	0.946	0.33	0.00	0.00	0.00	0.56	1.63
13 GL	1	27.00	60.700	33.4	0.0	6.7	23.6	0.0	1.7	0.1	98.1	0.0	1.01	1343.0	0.045	0.045	7.1	0.946	0.33	0.00	0.00	0.00	0.57	1.63
14 GL	1	26.90	60.700	33.4	0.0	6.7	23.6	0.0	1.7	0.1	98.0	0.0	1.01	1343.0	0.045	0.045	7.1	0.947	0.33	0.00	0.00	0.00	0.57	1.63
15 GL	1	26.80	60.700	33.4	0.0	6.7	23.6	0.0	1.7	0.1	97.9	0.0	1.01	1343.0	0.045	0.045	7.1	0.947	0.33	0.00	0.00	0.00	0.57	1.63
16 GL	1	26.70	60.700	33.5	0.0	6.7	23.6	0.0	1.7	0.1	97.7	0.0	1.01	1343.0	0.045	0.045	7.1	0.947	0.33	0.00	0.00	0.00	0.57	1.63
17 GL	1	26.60	60.700	33.5	0.0	6.6	23.6	0.0	1.7	0.1	97.6	0.0	1.01	1343.0	0.045	0.045	7.1	0.948	0.33	0.00	0.00	0.00	0.57	1.64
18 GL	1	26.50	60.700	33.5	0.0	6.6	23.6	0.0	1.7	0.1	97.4	0.0	1.01	1343.0	0.045	0.045	7.1	0.948	0.33	0.00	0.00	0.00	0.57	1.64
19 GL	1	26.40	60.700	33.5	0.0	6.6	23.6	0.0	1.7	0.1	97.3	0.0	1.01	1343.0	0.045	0.045	7.1	0.948	0.34	0.00	0.00	0.00	0.57	1.64
20 GL	1	26.30	60.700	33.6	0.0	6.6	23.6	0.0	1.7	0.1	97.1	0.0	1.01	1343.0	0.045	0.045	7.1	0.949	0.34	0.00	0.00	0.00	0.57	1.64
21 GL	1	26.20	60.700	33.6	0.0	6.6	23.6	0.0	1.7	0.1	97.0	0.0	1.01	1343.0	0.045	0.045	7.1	0.949	0.34	0.00	0.00	0.00	0.57	1.65
22 GL	1	26.10	60.700	33.6	0.0	6.6	23.6	0.0	1.7	0.1	96.9	0.0	1.01	1343.0	0.045	0.045	7.1	0.949	0.34	0.00	0.00	0.00	0.57	1.65
23 GL	1	26.00	60.700	33.6	0.0	6.6	23.6	0.0	1.7	0.1	96.7	0.0	1.01	1343.0	0.045	0.045	7.1	0.950	0.34	0.00	0.00	0.00	0.58	1.65
24 GL	1	25.90	60.700	33.6	0.0	6.6	23.6	0.0	1.7	0.1	96.6	0.0	1.01	1343.0	0.045	0.045	7.1	0.950	0.34	0.00	0.00	0.00	0.58	1.65
25 GL	1	25.80	60.700	33.7	0.0	6.6	23.6	0.0	1.7	0.1	96.4	0.0	1.01	1343.0	0.045	0.045	7.1	0.950	0.34	0.00	0.00	0.00	0.58	1.66
DIVERSION # 026 (Outflow to FB Oxbow) LEAVES HERE																							
26 GL	1	25.70	51.900	33.7	0.0	6.6	23.6	0.0	1.7	0.1	96.3	0.0	1.01	1343.0	0.038	0.038	7.1	0.951	0.34	0.00	0.00	0.00	0.58	1.66

27	GL	1	25.60	51.900	33.7	0.0	6.6	23.6	0.0	1.7	0.1	96.1	0.0	1.011	343.0	0.038	0.038	7.1	0.951	0.34	0.00	0.00	0.00	0.58	1.66
28	GL	1	25.50	51.900	33.7	0.0	6.6	23.6	0.0	1.7	0.1	96.0	0.0	1.011	343.0	0.038	0.038	7.1	0.952	0.34	0.00	0.00	0.00	0.58	1.66
29	GL	1	25.40	51.900	33.8	0.0	6.6	23.6	0.0	1.7	0.1	95.9	0.0	1.011	343.0	0.038	0.038	7.1	0.952	0.34	0.00	0.00	0.00	0.58	1.67
30	GL	1	25.30	51.900	33.8	0.0	6.5	23.6	0.0	1.7	0.1	95.7	0.0	1.011	343.0	0.038	0.038	7.1	0.952	0.34	0.00	0.00	0.00	0.58	1.67
31	GL	1	25.20	51.900	33.8	0.0	6.5	23.6	0.0	1.7	0.1	95.6	0.0	1.011	343.0	0.038	0.038	7.1	0.953	0.34	0.00	0.00	0.00	0.58	1.67
32	GL	1	25.10	51.900	33.8	0.0	6.5	23.6	0.0	1.7	0.1	95.4	0.0	1.011	343.0	0.038	0.038	7.1	0.953	0.34	0.00	0.00	0.00	0.58	1.67
33	GL	1	25.00	51.900	33.9	0.0	6.5	23.6	0.0	1.7	0.1	95.3	0.0	1.011	343.0	0.038	0.038	7.1	0.953	0.34	0.00	0.00	0.00	0.58	1.67
34	GL	1	24.90	51.900	33.9	0.0	6.5	23.6	0.0	1.8	0.1	95.1	0.0	1.011	343.0	0.038	0.038	7.1	0.954	0.34	0.00	0.00	0.00	0.58	1.68
35	GL	1	24.80	51.900	33.9	0.0	6.5	23.6	0.0	1.8	0.1	95.0	0.0	1.011	343.0	0.038	0.038	7.1	0.954	0.34	0.00	0.00	0.00	0.59	1.68
36	FB	2	24.70	51.900	33.9	0.0	6.5	23.6	0.0	1.8	0.1	91.8	0.3	5.24	107.0	0.093	0.093	7.1	0.172	0.40	0.00	0.00	0.00	0.58	7.18
37	FB	2	24.60	51.900	33.8	0.0	6.4	23.6	0.0	1.8	0.1	88.5	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.40	0.00	0.00	0.00	0.58	7.15
38	FB	2	24.50	51.900	33.8	0.0	6.4	23.7	0.0	1.8	0.1	85.2	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.39	0.00	0.00	0.00	0.58	7.13
39	FB	2	24.40	51.900	33.7	0.0	6.4	23.7	0.0	1.8	0.1	82.0	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.39	0.00	0.00	0.00	0.57	7.11
40	FB	2	24.30	51.900	33.7	0.0	6.3	23.7	0.0	1.8	0.1	78.8	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.39	0.00	0.00	0.00	0.57	7.09
41	FB	2	24.20	51.900	33.6	0.0	6.3	23.7	0.0	1.8	0.1	75.5	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.39	0.00	0.00	0.00	0.57	7.06
42	FB	2	24.10	51.900	33.6	0.0	6.2	23.7	0.0	1.8	0.1	72.2	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.39	0.00	0.00	0.00	0.56	7.04
43	FB	2	24.00	51.900	33.5	0.0	6.2	23.7	0.0	1.8	0.1	69.0	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.39	0.00	0.00	0.00	0.56	7.02
44	FB	2	23.90	51.900	33.5	0.0	6.1	23.8	0.0	1.8	0.1	65.8	0.3	5.24	107.0	0.093	0.093	7.1	0.170	0.39	0.00	0.00	0.00	0.56	7.00
45	FB	2	23.80	51.900	33.4	0.0	6.0	23.8	0.0	1.8	0.1	62.5	0.3	5.24	107.0	0.093	0.093	7.1	0.170	0.39	0.00	0.00	0.00	0.56	6.98
46	FB	2	23.70	51.900	33.4	0.0	6.0	23.8	0.0	1.8	0.1	59.2	0.3	5.24	107.0	0.093	0.093	7.1	0.170	0.39	0.00	0.00	0.00	0.55	6.95
47	FB	2	23.60	51.900	33.3	0.0	5.9	23.8	0.0	1.9	0.1	56.0	0.3	5.24	107.0	0.093	0.093	7.1	0.170	0.39	0.00	0.00	0.00	0.55	6.93
48	FB	2	23.50	51.900	33.2	0.0	5.8	23.8	0.0	1.9	0.1	52.8	0.3	5.24	107.0	0.093	0.093	7.2	0.170	0.39	0.00	0.00	0.00	0.54	6.91
49	FB	2	23.40	51.900	33.2	0.0	5.8	23.9	0.0	1.9	0.1	49.5	0.3	5.24	107.0	0.093	0.093	7.2	0.170	0.39	0.00	0.00	0.00	0.54	6.89
50	FB	2	23.30	51.900	33.2	0.0	5.7	23.9	0.0	1.9	0.1	46.2	0.3	5.24	107.0	0.093	0.093	7.2	0.170	0.38	0.00	0.00	0.00	0.54	6.87
51	FB	2	23.20	51.900	33.1	0.0	5.6	23.9	0.0	1.9	0.1	43.0	0.3	5.24	107.0	0.093	0.093	7.2	0.169	0.38	0.00	0.00	0.00	0.53	6.85
52	FB	2	23.10	51.900	33.1	0.0	5.5	23.9	0.0	1.9	0.1	39.8	0.3	5.24	107.0	0.093	0.093	7.2	0.169	0.38	0.00	0.00	0.00	0.53	6.82
53	FB	2	23.00	51.900	33.0	0.0	5.4	23.9	0.0	1.9	0.1	36.5	0.3	5.24	107.0	0.093	0.093	7.2	0.169	0.38	0.00	0.00	0.00	0.53	6.80
54	FB	2	22.90	51.900	33.0	0.0	5.3	23.9	0.0	1.9	0.1	33.2	0.3	5.24	107.0	0.093	0.093	7.2	0.169	0.38	0.00	0.00	0.00	0.52	6.78
55	FB	2	22.80	51.900	32.9	0.0	5.2	24.0	0.0	1.9	0.1	30.0	0.3	5.24	107.0	0.093	0.093	7.2	0.169	0.38	0.00	0.00	0.00	0.52	6.76
TRIBUTARY # 056 (Fourmile Bayou Oxbow) ENTERS HERE																									
98	F2	4	22.70	60.700	32.9	0.0	4.6	24.5	0.0	2.0	0.1	32.1	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.50	6.76
99	F2	4	22.60	60.700	32.9	0.0	4.5	24.5	0.0	2.1	0.1	34.1	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.50	6.76
100	F2	4	22.50	60.700	32.9	0.0	4.5	24.5	0.0	2.1	0.1	36.2	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.50	6.76
101	F2	4	22.40	60.700	32.9	0.0	4.4	24.5	0.0	2.1	0.1	38.2	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.50	6.75
102	F2	4	22.30	60.700	32.9	0.0	4.4	24.5	0.0	2.1	0.1	40.3	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
103	F2	4	22.20	60.700	32.9	0.0	4.3	24.5	0.0	2.1	0.1	42.4	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
104	F2	4	22.10	60.700	32.9	0.0	4.3	24.5	0.0	2.1	0.1	44.4	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
105	F2	4	22.00	60.700	32.9	0.0	4.2	24.5	0.0	2.1	0.1	46.5	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
106	F2	4	21.90	60.700	32.9	0.0	4.2	24.5	0.0	2.1	0.1	48.5	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
107	F2	4	21.80	60.700	32.9	0.0	4.1	24.6	0.0	2.1	0.1	50.6	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
108	F2	4	21.70	60.700	32.9	0.0	4.1	24.6	0.0	2.1	0.1	52.6	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
109	F2	4	21.60	60.700	32.9	0.0	4.1	24.6	0.0	2.1	0.1	54.7	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74
110	F2	4	21.50	60.700	32.9	0.0	4.0	24.6	0.0	2.1	0.1	56.8	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74
111	F2	4	21.40	60.700	32.9	0.0	4.0	24.6	0.0	2.1	0.1	58.8	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74
112	F2	4	21.30	60.700	32.9	0.0	4.0	24.6	0.0	2.2	0.1	60.9	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74
113	F2	4	21.20	60.700	32.9	0.0	3.9	24.6	0.0	2.2	0.1	62.9	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74

EXPANDED CAPSULE SUMMARY FOR Grassy Lake

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m²/s	CHLA m	DISP m	DEPTH m/s	WIDTH m/s	VELO mg/L	VELO 1/da	BOD1 1/da	BOD2 1/da	BOD2 1/da	NH3 1/da	SAT 1/da	RATE g/m²/d	DECA	SETT	DECA	SETT	DECA	SOD
										ADVEC	MEAN						REAER	BOD1		BOD2	BOD2							
114	F2 4	21.10	60.700	32.8	0.0	3.9	24.6	0.0	2.2	0.1	65.0	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74				
115	F2 4	21.00	60.700	32.8	0.0	3.9	24.6	0.0	2.2	0.1	67.1	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74				
116	F2 4	20.90	60.700	32.8	0.0	3.8	24.6	0.0	2.2	0.1	69.1	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.74				
117	F2 4	20.80	60.700	32.8	0.0	3.8	24.6	0.0	2.2	0.1	71.2	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73				
118	F2 4	20.70	60.700	32.8	0.0	3.8	24.6	0.0	2.2	0.1	73.2	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73				
119	F2 4	20.60	60.700	32.8	0.0	3.7	24.6	0.0	2.2	0.1	75.3	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73				
120	F2 4	20.50	60.700	32.8	0.0	3.7	24.6	0.0	2.2	0.1	77.4	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73				
121	F2 4	20.40	60.700	32.8	0.0	3.7	24.6	0.0	2.2	0.1	79.4	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73				
122	F2 4	20.30	60.700	32.8	0.0	3.7	24.6	0.0	2.2	0.1	81.5	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73				
123	F2 4	20.20	60.700	32.8	0.0	3.7	24.6	0.0	2.2	0.1	83.5	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73				
124	F2 4	20.10	60.700	32.8	0.0	3.6	24.6	0.0	2.3	0.1	85.6	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73				
125	F2 4	20.00	60.700	32.8	0.0	3.6	24.6	0.0	2.3	0.1	87.6	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.72				
126	F2 4	19.90	60.700	32.8	0.0	3.6	24.6	0.0	2.3	0.1	89.7	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.72				
127	F2 4	19.80	60.700	32.8	0.0	3.6	24.7	0.0	2.3	0.1	91.8	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.46	6.72				
128	F2 4	19.70	60.700	32.8	0.0	3.6	24.7	0.0	2.3	0.1	93.8	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.46	6.72				
129	F2 4	19.60	60.700	32.8	0.0	3.6	24.7	0.0	2.3	0.1	95.9	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.46	6.72				
130	F2 4	19.50	60.700	32.8	0.0	3.6	24.7	0.0	2.3	0.1	97.9	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.46	6.72				
131	F2 4	19.40	60.700	32.8	0.0	3.6	24.6	0.0	2.3	0.1	100.0	0.5	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.46	6.72				
WASTELOAD # 132 (Bayou Magazille) ENTERS HERE																												
132	V3 5	19.30	90.800	32.8	0.0	4.9	22.4	0.0	2.3	0.1	100.1	0.0	1.34	1892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.36				
133	V3 5	19.20	90.800	32.8	0.0	5.0	22.8	0.0	2.3	0.1	100.2	0.0	1.34	1892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.36				
134	V3 5	19.10	90.800	32.8	0.0	5.0	23.1	0.0	2.4	0.1	100.3	0.0	1.34	1892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.36				
135	V3 5	19.00	90.800	32.8	0.0	5.0	23.5	0.0	2.4	0.1	100.4	0.0	1.34	1892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.36				
136	V3 5	18.90	90.800	32.8	0.0	5.1	23.9	0.0	2.4	0.1	100.5	0.0	1.34	1892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35				
137	V3 5	18.80	90.800	32.8	0.0	5.1	24.2	0.0	2.4	0.1	100.6	0.0	1.34	1892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35				
138	V3 5	18.70	90.800	32.8	0.0	5.1	24.5	0.0	2.4	0.1	100.7	0.0	1.34	1892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35				
139	V3 5	18.60	90.800	32.8	0.0	5.2	24.9	0.0	2.4	0.1	100.8	0.0	1.34	1892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35				
WASTELOAD # 140 (NPDES Group1) ENTERS HERE																												
140	V3 5	18.50	90.802	32.8	0.0	5.2	25.2	0.0	2.4	0.1	100.9	0.0	1.34	1892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35				
141	V3 5	18.40	90.802	32.8	0.0	5.2	25.6	0.0	2.4	0.1	101.0	0.0	1.34	1892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35				
142	V3 5	18.30	90.802	32.8	0.0	5.2	25.9	0.0	2.4	0.1	101.1	0.0	1.34	1892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35				
143	V3 5	18.20	90.802	32.8	0.0	5.2	26.2	0.0	2.4	0.1	101.2	0.0	1.34	1892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35				
144	V3 5	18.10	90.802	32.7	0.0	5.2	26.5	0.0	2.4	0.1	101.3	0.0	1.34	1892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.35				
145	V3 5	18.00	90.802	32.7	0.0	5.2	26.9	0.0	2.4	0.1	101.4	0.0	1.34	1892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.35				
146	V3 5	17.90	90.802	32.7	0.0	5.2	27.2	0.0	2.4	0.1	101.5	0.0	1.34	1892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.35				
147	V3 5	17.80	90.802	32.7	0.0	5.2	27.5	0.0	2.4	0.1	101.6	0.0	1.34	1892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34				
148	V3 5	17.70	90.802	32.7	0.0	5.2	27.8	0.0	2.4	0.1	101.7	0.0	1.34	1892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34				
WASTELOAD # 149 (LAG540112) ENTERS HERE																												
149	V3 5	17.60	90.802	32.7	0.0	5.2	28.1	0.0	2.4	0.1	101.8	0.0	1.34	1892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34				
150	V3 5	17.50	90.802	32.7	0.0	5.2	28.4	0.0	2.4	0.1	101.9	0.0	1.34	1892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34				
151	V3 5	17.40	90.802	32.7	0.0	5.2	28.7	0.0	2.5	0.1	102.0	0.0	1.34	1892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34				
152	V3 5	17.30	90.802	32.7	0.0	5.2	29.0	0.0	2.5	0.1	102.1	0.0	1.34	1892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34				
153	V3 5	17.20	90.802	32.7	0.0	5.1	29.3	0.0	2.5	0.1	102.2	0.0	1.34	1892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34				
154	V3 5	17.10	90.802	32.7	0.0	5.1	29.6	0.0	2.5	0.1	102.3	0.0	1.34	1892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34				

155	V3	5	17.00	90.802	32.7	0.0	5.1	29.9	0.0	2.5	0.1102.4	0.0	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34
156	V3	5	16.90	90.802	32.7	0.0	5.1	30.2	0.0	2.5	0.1102.6	0.0	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34
157	V3	5	16.80	90.802	32.7	0.0	5.1	30.5	0.0	2.5	0.1102.7	0.0	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.34
158	V3	5	16.70	90.802	32.7	0.0	5.0	30.8	0.0	2.5	0.1102.8	0.0	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.34
159	V3	5	16.60	90.802	32.7	0.0	5.0	31.1	0.0	2.5	0.1102.9	0.0	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.33
160	V3	5	16.50	90.802	32.7	0.0	5.0	31.4	0.0	2.5	0.1103.0	0.0	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.33
161	V3	5	16.40	90.802	32.7	0.0	4.9	31.7	0.0	2.5	0.1103.1	0.0	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.33
162	V3	5	16.30	90.802	32.7	0.0	4.9	31.9	0.0	2.5	0.1103.2	0.0	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.33
163	V3	5	16.20	90.802	32.7	0.0	4.9	32.2	0.0	2.5	0.1103.3	0.0	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.33
164	V3	5	16.10	90.802	32.7	0.0	4.8	32.5	0.0	2.5	0.1103.4	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.50	3.33
165	V3	5	16.00	90.802	32.7	0.0	4.8	32.7	0.0	2.5	0.1103.5	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.50	3.33
166	V3	5	15.90	90.802	32.7	0.0	4.8	33.0	0.0	2.5	0.1103.6	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.50	3.33
167	V3	5	15.80	90.802	32.7	0.0	4.7	33.3	0.0	2.5	0.1103.7	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.33
168	V3	5	15.70	90.802	32.6	0.0	4.7	33.5	0.0	2.6	0.1103.8	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.33
169	V3	5	15.60	90.802	32.6	0.0	4.6	33.8	0.0	2.6	0.1103.9	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.33
170	V3	5	15.50	90.802	32.6	0.0	4.6	34.1	0.0	2.6	0.1104.0	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.33
171	V3	5	15.40	90.802	32.6	0.0	4.6	34.3	0.0	2.6	0.1104.1	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.32
172	V3	5	15.30	90.802	32.6	0.0	4.5	34.6	0.0	2.6	0.1104.2	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.32
173	V3	5	15.20	90.802	32.6	0.0	4.5	34.8	0.0	2.6	0.1104.3	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.32
174	V3	5	15.10	90.802	32.6	0.0	4.4	35.1	0.0	2.6	0.1104.4	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.32
175	V3	5	15.00	90.802	32.6	0.0	4.4	35.3	0.0	2.6	0.1104.5	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.48	3.32
176	V3	5	14.90	90.802	32.6	0.0	4.3	35.6	0.0	2.6	0.1104.6	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.48	3.32
177	V3	5	14.80	90.802	32.6	0.0	4.3	35.8	0.0	2.6	0.1104.7	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.48	3.32
178	V3	5	14.70	90.802	32.6	0.0	4.2	36.0	0.0	2.6	0.1104.8	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.48	3.32
179	V3	5	14.60	90.802	32.6	0.0	4.2	36.3	0.0	2.6	0.1104.9	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.48	3.32
180	V3	5	14.50	90.802	32.6	0.0	4.1	36.5	0.0	2.6	0.1105.0	0.0	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.48	3.32
181	V2	6	14.40	90.802	32.6	0.0	4.0	35.8	0.0	2.6	0.1104.5	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.47	3.32
182	V2	6	14.30	90.802	32.6	0.0	3.9	35.1	0.0	2.6	0.1104.1	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.47	3.32
183	V2	6	14.20	90.802	32.6	0.0	3.8	34.5	0.0	2.6	0.1103.6	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32
184	V2	6	14.10	90.802	32.6	0.0	3.7	33.8	0.0	2.6	0.1103.1	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32

EXPANDED CAPSULE SUMMARY FOR Grassy Lake

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN VELO	DO SAT	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
		km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
185	V2	6	14.00	90.802	32.6	0.0	3.6	33.2	0.0	2.6	0.1102.6	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32	
186	V2	6	13.90	90.802	32.6	0.0	3.6	32.6	0.0	2.6	0.1102.2	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32	
187	V2	6	13.80	90.802	32.6	0.0	3.6	32.1	0.0	2.6	0.1101.7	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32	
188	V2	6	13.70	90.802	32.6	0.0	3.6	31.5	0.0	2.6	0.1101.2	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32	
189	V2	6	13.60	90.802	32.6	0.0	3.5	31.0	0.0	2.6	0.1100.7	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32	
190	V2	6	13.50	90.802	32.6	0.0	3.6	30.4	0.0	2.6	0.1100.3	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31	
191	V2	6	13.40	90.802	32.6	0.0	3.6	29.9	0.0	2.5	0.1 99.8	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31	
192	V2	6	13.30	90.802	32.6	0.0	3.6	29.4	0.0	2.5	0.1 99.3	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31	
193	V2	6	13.20	90.802	32.6	0.0	3.6	29.0	0.0	2.5	0.1 98.8	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31	
194	V2	6	13.10	90.802	32.6	0.0	3.7	28.5	0.0	2.5	0.1 98.4	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31	
195	V2	6	13.00	90.802	32.6	0.0	3.7	28.0	0.0	2.5	0.1 97.9	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31	
196	V2	6	12.90	90.802	32.6	0.0	3.8	27.6	0.0	2.5	0.1 97.4	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31	
197	V2	6	12.80	90.802	32.6	0.0	3.9	27.2	0.0	2.5	0.1 96.9	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.47	3.31	

198	V2	6	12.70	90.802	32.6	0.0	3.9	26.8	0.0	2.5	0.1	96.5	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.47	3.31
199	V2	6	12.60	90.802	32.6	0.0	4.0	26.4	0.0	2.5	0.1	96.0	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.47	3.31
200	V2	6	12.50	90.802	32.6	0.0	4.1	26.0	0.0	2.5	0.1	95.5	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.47	3.31
201	V2	6	12.40	90.802	32.6	0.0	4.1	25.6	0.0	2.5	0.1	95.0	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.48	3.31
202	V2	6	12.30	90.802	32.6	0.0	4.2	25.3	0.0	2.5	0.1	94.6	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.48	3.31
203	V2	6	12.20	90.802	32.6	0.0	4.3	24.9	0.0	2.5	0.1	94.1	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.48	3.31
204	V2	6	12.10	90.802	32.6	0.0	4.4	24.6	0.0	2.5	0.1	93.6	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.48	3.31
205	V2	6	12.00	90.802	32.6	0.0	4.5	24.2	0.0	2.5	0.1	93.1	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.49	3.31
206	V2	6	11.90	90.802	32.6	0.0	4.6	23.9	0.0	2.4	0.1	92.7	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.49	3.31
207	V2	6	11.80	90.802	32.6	0.0	4.7	23.6	0.0	2.4	0.1	92.2	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.49	3.31
WASTELOAD # 208 (LAG560026) ENTERS HERE																									
208	V2	6	11.70	90.803	32.6	0.0	4.7	23.3	0.0	2.4	0.1	91.7	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.49	3.31
209	V2	6	11.60	90.803	32.6	0.0	4.8	23.0	0.0	2.4	0.1	91.2	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.49	3.31
210	V2	6	11.50	90.803	32.6	0.0	4.9	22.7	0.0	2.4	0.1	90.8	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.50	3.31
211	V2	6	11.40	90.803	32.6	0.0	5.0	22.5	0.0	2.4	0.1	90.3	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.50	3.31
212	V2	6	11.30	90.803	32.6	0.0	5.1	22.2	0.0	2.4	0.1	89.8	0.0	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.50	3.31
213	V2	6	11.20	90.803	32.6	0.0	5.2	22.0	0.0	2.4	0.1	89.4	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.29	0.00	0.00	0.00	0.50	3.31
214	V2	6	11.10	90.803	32.6	0.0	5.3	21.7	0.0	2.4	0.1	88.9	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.29	0.00	0.00	0.00	0.50	3.31
215	V2	6	11.00	90.803	32.6	0.0	5.3	21.5	0.0	2.4	0.1	88.4	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.29	0.00	0.00	0.00	0.51	3.31
216	V2	6	10.90	90.803	32.6	0.0	5.4	21.2	0.0	2.4	0.1	87.9	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.31
217	V2	6	10.80	90.803	32.6	0.0	5.5	21.0	0.0	2.4	0.1	87.5	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.31
218	V2	6	10.70	90.803	32.6	0.0	5.6	20.8	0.0	2.4	0.1	87.0	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.31
219	V2	6	10.60	90.803	32.6	0.0	5.7	20.6	0.0	2.4	0.1	86.5	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.31
220	V2	6	10.50	90.803	32.6	0.0	5.7	20.4	0.0	2.4	0.1	86.0	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.31
221	V2	6	10.40	90.803	32.6	0.0	5.8	20.2	0.0	2.4	0.1	85.6	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
222	V2	6	10.30	90.803	32.6	0.0	5.9	20.0	0.0	2.3	0.1	85.1	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
223	V2	6	10.20	90.803	32.6	0.0	6.0	19.8	0.0	2.3	0.1	84.6	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
224	V2	6	10.10	90.803	32.6	0.0	6.0	19.6	0.0	2.3	0.1	84.1	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
225	V2	6	10.00	90.803	32.6	0.0	6.1	19.4	0.0	2.3	0.1	83.7	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
226	V2	6	9.90	90.803	32.6	0.0	6.2	19.3	0.0	2.3	0.1	83.2	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
227	V2	6	9.80	90.803	32.6	0.0	6.2	19.1	0.0	2.3	0.1	82.7	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
228	V2	6	9.70	90.803	32.6	0.0	6.3	18.9	0.0	2.3	0.1	82.2	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
229	V2	6	9.60	90.803	32.6	0.0	6.3	18.8	0.0	2.3	0.1	81.8	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
230	V2	6	9.50	90.803	32.6	0.0	6.4	18.6	0.0	2.3	0.1	81.3	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
231	V2	6	9.40	90.803	32.6	0.0	6.4	18.5	0.0	2.3	0.1	80.8	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
232	V2	6	9.30	90.803	32.6	0.0	6.5	18.4	0.0	2.3	0.1	80.3	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
233	V2	6	9.20	90.803	32.6	0.0	6.5	18.2	0.0	2.3	0.1	79.9	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
234	V2	6	9.10	90.803	32.6	0.0	6.6	18.1	0.0	2.3	0.1	79.4	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
235	V2	6	9.00	90.803	32.6	0.0	6.6	18.0	0.0	2.3	0.1	78.9	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
236	V2	6	8.90	90.803	32.6	0.0	6.6	17.8	0.0	2.3	0.1	78.4	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
237	V2	6	8.80	90.803	32.6	0.0	6.7	17.7	0.0	2.3	0.1	78.0	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
238	V2	6	8.70	90.803	32.5	0.0	6.7	17.6	0.0	2.2	0.1	77.5	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
239	V2	6	8.60	90.803	32.5	0.0	6.7	17.5	0.0	2.2	0.1	77.0	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
240	V2	6	8.50	90.803	32.5	0.0	6.8	17.4	0.0	2.2	0.1	76.6	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
241	V2	6	8.40	90.803	32.5	0.0	6.8	17.3	0.0	2.2	0.1	76.1	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
242	V2	6	8.30	90.803	32.5	0.0	6.8	17.2	0.0	2.2	0.1	75.6	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
243	V2	6	8.20	90.803	32.5	0.0	6.8	17.1	0.0	2.2	0.1	75.1	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
244	V2	6	8.10	90.803	32.5	0.0	6.9	17.0	0.0	2.2	0.1	74.7	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
245	V2	6	8.00	90.803	32.5	0.0	6.9	16.9	0.0	2.2	0.1	74.2	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
246	V2	6	7.90	90.803	32.5	0.0	6.9	16.8	0.0	2.2	0.1	73.7	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30

247	V2	6	7.80	90.803	32.5	0.0	6.9	16.7	0.0	2.2	0.1	73.2	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
248	V2	6	7.70	90.803	32.5	0.0	6.9	16.6	0.0	2.2	0.1	72.8	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
249	V2	6	7.60	90.803	32.5	0.0	6.9	16.5	0.0	2.2	0.1	72.3	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
250	V2	6	7.50	90.803	32.5	0.0	6.9	16.4	0.0	2.2	0.1	71.8	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
251	V2	6	7.40	90.803	32.5	0.0	6.9	16.4	0.0	2.2	0.1	71.3	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
252	V2	6	7.30	90.803	32.5	0.0	6.9	16.3	0.0	2.2	0.1	70.9	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
253	V2	6	7.20	90.803	32.5	0.0	6.9	16.2	0.0	2.2	0.1	70.4	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
254	V2	6	7.10	90.803	32.5	0.0	6.9	16.1	0.0	2.2	0.1	69.9	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
255	V2	6	7.00	90.803	32.5	0.0	6.9	16.1	0.0	2.2	0.1	69.4	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
256	V2	6	6.90	90.803	32.5	0.0	6.9	16.0	0.0	2.1	0.1	69.0	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
257	V2	6	6.80	90.803	32.5	0.0	6.9	15.9	0.0	2.1	0.1	68.5	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30

EXPANDED CAPSULE SUMMARY FOR Grassy Lake

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	VELO	VELO	SAT	RATE	DECA	SETT	DECA	SETT	DECA	SOD
		km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
258	V2	6	6.70	90.803	32.5	0.0	6.9	15.9	0.0	2.1	0.1	68.0	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
259	V2	6	6.60	90.803	32.5	0.0	6.9	15.8	0.0	2.1	0.1	67.5	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
260	V2	6	6.50	90.803	32.5	0.0	6.8	15.8	0.0	2.1	0.1	67.1	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
261	V2	6	6.40	90.803	32.5	0.0	6.8	15.7	0.0	2.1	0.1	66.6	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
262	V2	6	6.30	90.803	32.5	0.0	6.8	15.7	0.0	2.1	0.1	66.1	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
263	V2	6	6.20	90.803	32.5	0.0	6.8	15.6	0.0	2.1	0.1	65.6	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
WASTELOAD # 264 (NPDES Group2) ENTERS HERE																								
264	V2	6	6.10	90.812	32.5	0.0	6.8	15.5	0.0	2.1	0.1	65.2	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
265	V2	6	6.00	90.812	32.5	0.0	6.7	15.5	0.0	2.1	0.1	64.7	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
266	V2	6	5.90	90.812	32.5	0.0	6.7	15.4	0.0	2.1	0.1	64.2	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
267	V2	6	5.80	90.812	32.5	0.0	6.7	15.4	0.0	2.1	0.1	63.8	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
268	V2	6	5.70	90.812	32.5	0.0	6.7	15.4	0.0	2.1	0.1	63.3	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
269	V2	6	5.60	90.812	32.5	0.0	6.6	15.3	0.0	2.1	0.1	62.8	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
270	V2	6	5.50	90.812	32.5	0.0	6.6	15.3	0.0	2.1	0.1	62.3	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
271	V2	6	5.40	90.812	32.5	0.0	6.5	15.2	0.0	2.1	0.1	61.9	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
272	V2	6	5.30	90.812	32.5	0.0	6.5	15.2	0.0	2.1	0.1	61.4	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
273	V2	6	5.20	90.812	32.5	0.0	6.5	15.1	0.0	2.1	0.1	60.9	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
274	V2	6	5.10	90.812	32.5	0.0	6.4	15.1	0.0	2.0	0.1	60.4	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
275	V2	6	5.00	90.812	32.5	0.0	6.4	15.1	0.0	2.0	0.1	60.0	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
276	V2	6	4.90	90.812	32.5	0.0	6.4	15.0	0.0	2.0	0.1	59.5	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
277	V2	6	4.80	90.812	32.5	0.0	6.3	15.0	0.0	2.0	0.1	59.0	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
278	V2	6	4.70	90.812	32.5	0.0	6.3	15.0	0.0	2.0	0.1	58.5	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
279	V2	6	4.60	90.812	32.5	0.0	6.2	14.9	0.0	2.0	0.1	58.1	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
280	V2	6	4.50	90.812	32.5	0.0	6.2	14.9	0.0	2.0	0.1	57.6	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
281	V2	6	4.40	90.812	32.5	0.0	6.1	14.9	0.0	2.0	0.1	57.1	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
282	V2	6	4.30	90.812	32.5	0.0	6.1	14.8	0.0	2.0	0.1	56.6	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
283	V2	6	4.20	90.812	32.5	0.0	6.0	14.8	0.0	2.0	0.1	56.2	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
284	V2	6	4.10	90.812	32.5	0.0	6.0	14.8	0.0	2.0	0.1	55.7	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
285	V2	6	4.00	90.812	32.5	0.0	5.9	14.8	0.0	2.0	0.1	55.2	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
286	V2	6	3.90	90.812	32.5	0.0	5.9	14.7	0.0	2.0	0.1	54.7	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
287	V2	6	3.80	90.812	32.5	0.0	5.8	14.7	0.0	2.0	0.1	54.3	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
288	V2	6	3.70	90.812	32.5	0.0	5.7	14.7	0.0	2.0	0.1	53.8	0.0	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30

289	V2	6	3.60	90.812	32.5	0.0	5.7	14.7	0.0	2.0	0.1	53.3	0.0	2.134	092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
290	V2	6	3.50	90.812	32.5	0.0	5.6	14.6	0.0	2.0	0.1	52.8	0.0	2.134	092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
291	V2	6	3.40	90.812	32.5	0.0	5.6	14.6	0.0	2.0	0.1	52.4	0.0	2.134	092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
292	V2	6	3.30	90.812	32.5	0.0	5.5	14.6	0.0	2.0	0.1	51.9	0.0	2.134	092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
293	V2	6	3.20	90.812	32.5	0.0	5.4	14.6	0.0	2.0	0.1	51.4	0.0	2.134	092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
294	V2	6	3.10	90.812	32.5	0.0	5.4	14.6	0.0	1.9	0.1	50.9	0.0	2.134	092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.50	3.30
295	V2	6	3.00	90.812	32.5	0.0	5.3	14.5	0.0	1.9	0.1	50.5	0.0	2.134	092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.50	3.30
296	V2	6	2.90	90.812	32.5	0.0	5.3	14.5	0.0	1.9	0.1	50.0	0.0	2.134	092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.50	3.30
297	V1	7	2.80	90.812	32.5	0.0	5.2	14.5	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.50	2.86
298	V1	7	2.70	90.812	32.5	0.0	5.2	14.5	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.50	2.86
299	V1	7	2.60	90.812	32.5	0.0	5.1	14.5	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.50	2.86
300	V1	7	2.50	90.812	32.5	0.0	5.1	14.4	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.50	2.86
301	V1	7	2.40	90.812	32.5	0.0	5.1	14.4	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.50	2.86
302	V1	7	2.30	90.812	32.5	0.0	5.0	14.4	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.50	2.86
303	V1	7	2.20	90.812	32.5	0.0	5.0	14.4	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.50	2.86
304	V1	7	2.10	90.812	32.5	0.0	4.9	14.4	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.49	2.86
305	V1	7	2.00	90.812	32.5	0.0	4.9	14.4	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.49	2.86
306	V1	7	1.90	90.812	32.5	0.0	4.9	14.3	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.49	2.86
307	V1	7	1.80	90.812	32.5	0.0	4.8	14.3	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.49	2.86
308	V1	7	1.70	90.812	32.5	0.0	4.8	14.3	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.49	2.86
309	V1	7	1.60	90.812	32.5	0.0	4.8	14.3	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.49	2.86
310	V1	7	1.50	90.812	32.5	0.0	4.7	14.3	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.49	2.86
311	V1	7	1.40	90.812	32.5	0.0	4.7	14.3	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.49	2.86
312	V1	7	1.30	90.812	32.5	0.0	4.7	14.2	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.49	2.86
313	V1	7	1.20	90.812	32.5	0.0	4.6	14.2	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.49	2.86
314	V1	7	1.10	90.812	32.5	0.0	4.6	14.2	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.49	2.86
315	V1	7	1.00	90.812	32.5	0.0	4.6	14.2	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.48	2.86
316	V1	7	0.90	90.812	32.5	0.0	4.5	14.2	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.48	2.86
317	V1	7	0.80	90.812	32.5	0.0	4.5	14.2	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.48	2.86
318	V1	7	0.70	90.812	32.5	0.0	4.5	14.2	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.48	2.86
WASTELOAD # 319 (NPDES Group3) ENTERS HERE																										
319	V1	7	0.60	90.813	32.5	0.0	4.4	14.1	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.48	2.86
320	V1	7	0.50	90.813	32.5	0.0	4.4	14.1	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.48	2.86
321	V1	7	0.40	90.813	32.5	0.0	4.4	14.1	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.48	2.86
322	V1	7	0.30	90.813	32.5	0.0	4.3	14.1	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.48	2.86
323	V1	7	0.20	90.813	32.5	0.0	4.3	14.1	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.48	2.86
324	V1	7	0.10	90.813	32.5	0.0	4.3	14.1	0.0	1.9	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.48	2.86
325	V1	7	0.00	90.813	32.5	0.0	4.3	13.6	0.0	1.8	0.1	50.0	0.1	1.95	767.0	0.061	0.061	7.2	0.483	0.41	0.00	0.00	0.00	0.48	2.86

EXPANDED CAPSULE SUMMARY FOR Fourmile Bayou Oxbow

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN VELO	DO SAT	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
		km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
56	OB	3	4.10	8.800	33.9	0.0	6.7	25.5	0.0	1.7	0.1	93.5	0.1	2.50	87.0	0.040	0.040	7.1	0.360	0.40	0.00	0.00	0.00	0.59	7.19
57	OB	3	4.00	8.800	33.9	0.0	6.5	25.5	0.0	1.7	0.1	91.9	0.1	2.50	87.0	0.040	0.040	7.1	0.359	0.40	0.00	0.00	0.00	0.58	7.18
58	OB	3	3.90	8.800	33.8	0.0	6.4	25.6	0.0	1.8	0.1	90.4	0.1	2.50	87.0	0.040	0.040	7.1	0.359	0.40	0.00	0.00	0.00	0.58	7.17
59	OB	3	3.80	8.800	33.8	0.0	6.3	25.6	0.0	1.8	0.1	88.8	0.1	2.50	87.0	0.040	0.040	7.1	0.359	0.40	0.00	0.00	0.00	0.58	7.16
60	OB	3	3.70	8.800	33.8	0.0	6.2	25.6	0.0	1.8	0.1	87.3	0.1	2.50	87.0	0.040	0.040	7.1	0.359	0.40	0.00	0.00	0.00	0.57	7.15

61	OB	3	3.60	8.800	33.8	0.0	6.0	25.6	0.0	1.8	0.1	85.7	0.1	2.50	87.0	0.040	0.040	7.1	0.359	0.40	0.00	0.00	0.00	0.57	7.13
62	OB	3	3.50	8.800	33.7	0.0	5.9	25.7	0.0	1.9	0.1	84.2	0.1	2.50	87.0	0.040	0.040	7.1	0.359	0.39	0.00	0.00	0.00	0.57	7.12
63	OB	3	3.40	8.800	33.7	0.0	5.7	25.7	0.0	1.9	0.1	82.6	0.1	2.50	87.0	0.040	0.040	7.1	0.359	0.39	0.00	0.00	0.00	0.56	7.11
64	OB	3	3.30	8.800	33.7	0.0	5.6	25.7	0.0	1.9	0.1	81.1	0.1	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.56	7.10
65	OB	3	3.20	8.800	33.7	0.0	5.4	25.7	0.0	1.9	0.1	79.5	0.1	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.55	7.09
66	OB	3	3.10	8.800	33.6	0.0	5.3	25.8	0.0	2.0	0.1	78.0	0.1	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.55	7.08
67	OB	3	3.00	8.800	33.6	0.0	5.1	25.8	0.0	2.0	0.1	76.4	0.1	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.55	7.07
68	OB	3	2.90	8.800	33.6	0.0	5.0	25.8	0.0	2.0	0.1	74.9	0.1	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.54	7.06
69	OB	3	2.80	8.800	33.6	0.0	4.8	25.8	0.0	2.0	0.1	73.3	0.1	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.54	7.05
70	OB	3	2.70	8.800	33.5	0.0	4.7	25.9	0.0	2.1	0.1	71.8	0.1	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.53	7.04
71	OB	3	2.60	8.800	33.5	0.0	4.5	25.9	0.0	2.1	0.1	70.2	0.1	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.52	7.03
72	OB	3	2.50	8.800	33.5	0.0	4.3	25.9	0.0	2.1	0.1	68.7	0.1	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.52	7.02
73	OB	3	2.40	8.800	33.5	0.0	4.2	25.9	0.0	2.1	0.1	67.1	0.1	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.51	7.01
74	OB	3	2.30	8.800	33.4	0.0	4.0	25.9	0.0	2.1	0.1	65.6	0.1	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.50	7.00
75	OB	3	2.20	8.800	33.4	0.0	3.8	26.0	0.0	2.2	0.1	64.0	0.1	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.50	6.99
76	OB	3	2.10	8.800	33.4	0.0	3.7	26.0	0.0	2.2	0.1	62.5	0.1	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.49	6.98
77	OB	3	2.00	8.800	33.4	0.0	3.5	26.0	0.0	2.2	0.1	61.0	0.1	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.48	6.97
78	OB	3	1.90	8.800	33.4	0.0	3.3	26.0	0.0	2.2	0.1	59.4	0.1	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.47	6.96
79	OB	3	1.80	8.800	33.3	0.0	3.1	26.1	0.0	2.3	0.1	57.9	0.1	2.50	87.0	0.040	0.040	7.1	0.356	0.39	0.00	0.00	0.00	0.46	6.94
80	OB	3	1.70	8.800	33.3	0.0	2.9	26.1	0.0	2.3	0.1	56.3	0.1	2.50	87.0	0.040	0.040	7.1	0.356	0.39	0.00	0.00	0.00	0.45	6.93
81	OB	3	1.60	8.800	33.3	0.0	2.8	26.1	0.0	2.3	0.1	54.8	0.1	2.50	87.0	0.040	0.040	7.1	0.356	0.39	0.00	0.00	0.00	0.44	6.92
82	OB	3	1.50	8.800	33.3	0.0	2.6	26.1	0.0	2.3	0.1	53.2	0.1	2.50	87.0	0.040	0.040	7.2	0.356	0.39	0.00	0.00	0.00	0.43	6.91
83	OB	3	1.40	8.800	33.2	0.0	2.4	26.2	0.0	2.4	0.1	51.7	0.1	2.50	87.0	0.040	0.040	7.2	0.356	0.39	0.00	0.00	0.00	0.42	6.90
84	OB	3	1.30	8.800	33.2	0.0	2.2	26.2	0.0	2.4	0.1	50.1	0.1	2.50	87.0	0.040	0.040	7.2	0.356	0.39	0.00	0.00	0.00	0.40	6.89
85	OB	3	1.20	8.800	33.2	0.0	2.0	26.2	0.0	2.4	0.1	48.6	0.1	2.50	87.0	0.040	0.040	7.2	0.356	0.38	0.00	0.00	0.00	0.39	6.88
86	OB	3	1.10	8.800	33.2	0.0	1.8	26.3	0.0	2.4	0.1	47.0	0.1	2.50	87.0	0.040	0.040	7.2	0.355	0.35	0.00	0.00	0.00	0.29	6.31
87	OB	3	1.00	8.800	33.1	0.0	1.7	26.3	0.0	2.5	0.1	45.5	0.1	2.50	87.0	0.040	0.040	7.2	0.355	0.33	0.00	0.00	0.00	0.22	5.82
88	OB	3	0.90	8.800	33.1	0.0	1.6	26.4	0.0	2.5	0.1	43.9	0.1	2.50	87.0	0.040	0.040	7.2	0.355	0.30	0.00	0.00	0.00	0.16	5.40
89	OB	3	0.80	8.800	33.1	0.0	1.5	26.5	0.0	2.5	0.1	42.4	0.1	2.50	87.0	0.040	0.040	7.2	0.355	0.28	0.00	0.00	0.00	0.13	5.03
90	OB	3	0.70	8.800	33.1	0.0	1.4	26.6	0.0	2.5	0.1	40.8	0.1	2.50	87.0	0.040	0.040	7.2	0.355	0.26	0.00	0.00	0.00	0.10	4.71
91	OB	3	0.60	8.800	33.0	0.0	1.3	26.8	0.0	2.5	0.1	39.3	0.1	2.50	87.0	0.040	0.040	7.2	0.355	0.25	0.00	0.00	0.00	0.08	4.43
92	OB	3	0.50	8.800	33.0	0.0	1.2	26.9	0.0	2.6	0.1	37.7	0.1	2.50	87.0	0.040	0.040	7.2	0.355	0.23	0.00	0.00	0.00	0.06	4.19
93	OB	3	0.40	8.800	33.0	0.0	1.2	27.0	0.0	2.6	0.1	36.2	0.1	2.50	87.0	0.040	0.040	7.2	0.354	0.22	0.00	0.00	0.00	0.05	3.97
94	OB	3	0.30	8.800	33.0	0.0	1.1	27.2	0.0	2.6	0.1	34.6	0.1	2.50	87.0	0.040	0.040	7.2	0.354	0.21	0.00	0.00	0.00	0.04	3.77
95	OB	3	0.20	8.800	32.9	0.0	1.1	27.3	0.0	2.6	0.1	33.1	0.1	2.50	87.0	0.040	0.040	7.2	0.354	0.20	0.00	0.00	0.00	0.04	3.59
96	OB	3	0.10	8.800	32.9	0.0	1.0	27.5	0.0	2.7	0.1	31.5	0.1	2.50	87.0	0.040	0.040	7.2	0.354	0.19	0.00	0.00	0.00	0.03	3.43
97	OB	3	0.00	8.800	32.9	0.0	1.1	27.5	0.0	2.7	0.1	30.0	0.1	2.50	87.0	0.040	0.040	7.2	0.354	0.20	0.00	0.00	0.00	0.04	3.59

SPECIAL REPORT: Grassy Lake
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS #/100mL	CHL A *	MACRO	COLI	NCM
1	28.200	33.12	0.0	0.0	0.0	6.70	23.51	0.00	23.51	0.00	1.60	0.10	0.03	1.73	0.00	99.9	0.0	0.	0.00
2	28.100	33.15	0.0	0.0	0.0	6.70	23.51	0.00	23.51	0.00	1.61	0.10	0.02	1.73	0.00	99.7	0.0	0.	0.00
3	28.000	33.17	0.0	0.0	0.0	6.70	23.52	0.00	23.52	0.00	1.61	0.10	0.01	1.72	0.00	99.6	0.0	0.	0.00
4	27.900	33.19	0.0	0.0	0.0	6.70	23.53	0.00	23.53	0.00	1.62	0.10	0.00	1.72	0.00	99.4	0.0	0.	0.00
5	27.800	33.21	0.0	0.0	0.0	6.70	23.53	0.00	23.53	0.00	1.62	0.10	0.00	1.72	0.00	99.3	0.0	0.	0.00

6	27.700	33.24	0.0	0.0	0.0	6.69	23.54	0.00	23.54	0.00	1.63	0.10	0.00	1.72	0.00	99.1	0.0	0.	0.00
7	27.600	33.26	0.0	0.0	0.0	6.69	23.54	0.00	23.54	0.00	1.63	0.10	0.00	1.73	0.00	99.0	0.0	0.	0.00
8	27.500	33.28	0.0	0.0	0.0	6.69	23.55	0.00	23.55	0.00	1.63	0.10	0.00	1.73	0.00	98.9	0.0	0.	0.00
9	27.400	33.31	0.0	0.0	0.0	6.69	23.55	0.00	23.55	0.00	1.64	0.10	0.00	1.74	0.00	98.7	0.0	0.	0.00
10	27.300	33.33	0.0	0.0	0.0	6.68	23.56	0.00	23.56	0.00	1.64	0.10	0.00	1.74	0.00	98.6	0.0	0.	0.00
11	27.200	33.35	0.0	0.0	0.0	6.68	23.56	0.00	23.56	0.00	1.65	0.10	0.00	1.74	0.00	98.4	0.0	0.	0.00
12	27.100	33.37	0.0	0.0	0.0	6.67	23.57	0.00	23.57	0.00	1.65	0.10	0.00	1.75	0.00	98.3	0.0	0.	0.00
13	27.000	33.40	0.0	0.0	0.0	6.67	23.57	0.00	23.57	0.00	1.66	0.10	0.00	1.75	0.00	98.1	0.0	0.	0.00
14	26.900	33.42	0.0	0.0	0.0	6.67	23.58	0.00	23.58	0.00	1.66	0.10	0.00	1.76	0.00	98.0	0.0	0.	0.00
15	26.800	33.44	0.0	0.0	0.0	6.66	23.58	0.00	23.58	0.00	1.67	0.10	0.00	1.76	0.00	97.9	0.0	0.	0.00
16	26.700	33.47	0.0	0.0	0.0	6.65	23.58	0.00	23.58	0.00	1.67	0.10	0.00	1.76	0.00	97.7	0.0	0.	0.00
17	26.600	33.49	0.0	0.0	0.0	6.65	23.59	0.00	23.59	0.00	1.67	0.09	0.00	1.77	0.00	97.6	0.0	0.	0.00
18	26.500	33.51	0.0	0.0	0.0	6.64	23.59	0.00	23.59	0.00	1.68	0.09	0.00	1.77	0.00	97.4	0.0	0.	0.00
19	26.400	33.53	0.0	0.0	0.0	6.64	23.59	0.00	23.59	0.00	1.68	0.09	0.00	1.78	0.00	97.3	0.0	0.	0.00
20	26.300	33.56	0.0	0.0	0.0	6.63	23.59	0.00	23.59	0.00	1.69	0.09	0.00	1.78	0.00	97.1	0.0	0.	0.00
21	26.200	33.58	0.0	0.0	0.0	6.62	23.59	0.00	23.59	0.00	1.69	0.09	0.00	1.78	0.00	97.0	0.0	0.	0.00
22	26.100	33.60	0.0	0.0	0.0	6.62	23.60	0.00	23.60	0.00	1.70	0.09	0.00	1.79	0.00	96.9	0.0	0.	0.00
23	26.000	33.63	0.0	0.0	0.0	6.61	23.60	0.00	23.60	0.00	1.70	0.09	0.00	1.79	0.00	96.7	0.0	0.	0.00
24	25.900	33.65	0.0	0.0	0.0	6.60	23.60	0.00	23.60	0.00	1.70	0.09	0.00	1.80	0.00	96.6	0.0	0.	0.00
25	25.800	33.67	0.0	0.0	0.0	6.59	23.60	0.00	23.60	0.00	1.71	0.09	0.00	1.80	0.00	96.4	0.0	0.	0.00
26	25.700	33.69	0.0	0.0	0.0	6.58	23.60	0.00	23.60	0.00	1.71	0.09	0.00	1.81	0.00	96.3	0.0	0.	0.00
27	25.600	33.72	0.0	0.0	0.0	6.57	23.60	0.00	23.60	0.00	1.72	0.09	0.00	1.81	0.00	96.1	0.0	0.	0.00
28	25.500	33.74	0.0	0.0	0.0	6.56	23.60	0.00	23.60	0.00	1.72	0.09	0.00	1.81	0.00	96.0	0.0	0.	0.00
29	25.400	33.76	0.0	0.0	0.0	6.55	23.60	0.00	23.60	0.00	1.73	0.09	0.00	1.82	0.00	95.9	0.0	0.	0.00
30	25.300	33.79	0.0	0.0	0.0	6.54	23.60	0.00	23.60	0.00	1.73	0.09	0.00	1.82	0.00	95.7	0.0	0.	0.00
31	25.200	33.81	0.0	0.0	0.0	6.53	23.60	0.00	23.60	0.00	1.74	0.09	0.00	1.83	0.00	95.6	0.0	0.	0.00
32	25.100	33.83	0.0	0.0	0.0	6.52	23.60	0.00	23.60	0.00	1.74	0.09	0.00	1.83	0.00	95.4	0.0	0.	0.00
33	25.000	33.85	0.0	0.0	0.0	6.51	23.60	0.00	23.60	0.00	1.75	0.09	0.00	1.84	0.00	95.3	0.0	0.	0.00
34	24.900	33.88	0.0	0.0	0.0	6.50	23.60	0.00	23.60	0.00	1.75	0.09	0.00	1.84	0.00	95.1	0.0	0.	0.00
35	24.800	33.90	0.0	0.0	0.0	6.49	23.60	0.00	23.60	0.00	1.76	0.09	0.00	1.85	0.00	95.0	0.0	0.	0.00
36	24.700	33.85	0.0	0.0	0.0	6.46	23.62	0.00	23.62	0.00	1.77	0.09	0.00	1.86	0.00	91.8	0.0	0.	0.00
37	24.600	33.80	0.0	0.0	0.0	6.43	23.63	0.00	23.63	0.00	1.77	0.09	0.00	1.86	0.00	88.5	0.0	0.	0.00
38	24.500	33.75	0.0	0.0	0.0	6.39	23.65	0.00	23.65	0.00	1.78	0.09	0.00	1.87	0.00	85.2	0.0	0.	0.00
39	24.400	33.70	0.0	0.0	0.0	6.35	23.67	0.00	23.67	0.00	1.79	0.09	0.00	1.88	0.00	82.0	0.0	0.	0.00
40	24.300	33.65	0.0	0.0	0.0	6.31	23.69	0.00	23.69	0.00	1.80	0.09	0.00	1.89	0.00	78.8	0.0	0.	0.00
41	24.200	33.60	0.0	0.0	0.0	6.26	23.70	0.00	23.70	0.00	1.81	0.09	0.00	1.90	0.00	75.5	0.0	0.	0.00
42	24.100	33.55	0.0	0.0	0.0	6.22	23.72	0.00	23.72	0.00	1.82	0.09	0.00	1.91	0.00	72.2	0.0	0.	0.00
43	24.000	33.50	0.0	0.0	0.0	6.16	23.74	0.00	23.74	0.00	1.82	0.09	0.00	1.91	0.00	69.0	0.0	0.	0.00
44	23.900	33.45	0.0	0.0	0.0	6.10	23.76	0.00	23.76	0.00	1.83	0.09	0.00	1.92	0.00	65.8	0.0	0.	0.00
45	23.800	33.40	0.0	0.0	0.0	6.04	23.78	0.00	23.78	0.00	1.84	0.09	0.00	1.93	0.00	62.5	0.0	0.	0.00
46	23.700	33.35	0.0	0.0	0.0	5.98	23.79	0.00	23.79	0.00	1.85	0.09	0.00	1.94	0.00	59.2	0.0	0.	0.00
47	23.600	33.30	0.0	0.0	0.0	5.91	23.81	0.00	23.81	0.00	1.86	0.09	0.00	1.95	0.00	56.0	0.0	0.	0.00
48	23.500	33.25	0.0	0.0	0.0	5.84	23.83	0.00	23.83	0.00	1.87	0.09	0.00	1.96	0.00	52.8	0.0	0.	0.00
49	23.400	33.20	0.0	0.0	0.0	5.77	23.85	0.00	23.85	0.00	1.87	0.09	0.00	1.96	0.00	49.5	0.0	0.	0.00
50	23.300	33.15	0.0	0.0	0.0	5.69	23.87	0.00	23.87	0.00	1.88	0.09	0.00	1.97	0.00	46.2	0.0	0.	0.00
51	23.200	33.10	0.0	0.0	0.0	5.61	23.89	0.00	23.89	0.00	1.89	0.09	0.00	1.98	0.00	43.0	0.0	0.	0.00
52	23.100	33.05	0.0	0.0	0.0	5.52	23.91	0.00	23.91	0.00	1.90	0.09	0.00	1.99	0.00	39.8	0.0	0.	0.00
53	23.000	33.00	0.0	0.0	0.0	5.44	23.93	0.00	23.93	0.00	1.91	0.09	0.00	2.00	0.00	36.5	0.0	0.	0.00
54	22.900	32.95	0.0	0.0	0.0	5.34	23.95	0.00	23.95	0.00	1.92	0.09	0.00	2.01	0.00	33.2	0.0	0.	0.00
55	22.800	32.90	0.0	0.0	0.0	5.23	23.99	0.00	23.99	0.00	1.93	0.09	0.00	2.02	0.00	30.0	0.0	0.	0.00

98	22.700	32.90	0.0	0.0	0.0	4.57	24.51	0.00	24.51	0.00	2.04	0.09	0.00	2.14	0.00	32.1	0.0	0.	0.00
99	22.600	32.89	0.0	0.0	0.0	4.52	24.51	0.00	24.51	0.00	2.05	0.09	0.00	2.14	0.00	34.1	0.0	0.	0.00
100	22.500	32.89	0.0	0.0	0.0	4.47	24.52	0.00	24.52	0.00	2.06	0.09	0.00	2.15	0.00	36.2	0.0	0.	0.00
101	22.400	32.89	0.0	0.0	0.0	4.42	24.52	0.00	24.52	0.00	2.07	0.09	0.00	2.16	0.00	38.2	0.0	0.	0.00
102	22.300	32.89	0.0	0.0	0.0	4.37	24.53	0.00	24.53	0.00	2.07	0.09	0.00	2.17	0.00	40.3	0.0	0.	0.00
103	22.200	32.88	0.0	0.0	0.0	4.32	24.53	0.00	24.53	0.00	2.08	0.09	0.00	2.18	0.00	42.4	0.0	0.	0.00
104	22.100	32.88	0.0	0.0	0.0	4.27	24.54	0.00	24.54	0.00	2.09	0.10	0.00	2.19	0.00	44.4	0.0	0.	0.00
105	22.000	32.88	0.0	0.0	0.0	4.23	24.54	0.00	24.54	0.00	2.10	0.10	0.00	2.19	0.00	46.5	0.0	0.	0.00
106	21.900	32.87	0.0	0.0	0.0	4.18	24.55	0.00	24.55	0.00	2.11	0.10	0.00	2.20	0.00	48.5	0.0	0.	0.00
107	21.800	32.87	0.0	0.0	0.0	4.14	24.55	0.00	24.55	0.00	2.11	0.10	0.00	2.21	0.00	50.6	0.0	0.	0.00
108	21.700	32.87	0.0	0.0	0.0	4.10	24.56	0.00	24.56	0.00	2.12	0.10	0.00	2.22	0.00	52.6	0.0	0.	0.00
109	21.600	32.86	0.0	0.0	0.0	4.06	24.56	0.00	24.56	0.00	2.13	0.10	0.00	2.23	0.00	54.7	0.0	0.	0.00
110	21.500	32.86	0.0	0.0	0.0	4.02	24.57	0.00	24.57	0.00	2.14	0.10	0.00	2.23	0.00	56.8	0.0	0.	0.00
111	21.400	32.86	0.0	0.0	0.0	3.99	24.57	0.00	24.57	0.00	2.15	0.10	0.00	2.24	0.00	58.8	0.0	0.	0.00
112	21.300	32.86	0.0	0.0	0.0	3.95	24.58	0.00	24.58	0.00	2.15	0.10	0.00	2.25	0.00	60.9	0.0	0.	0.00
113	21.200	32.85	0.0	0.0	0.0	3.92	24.58	0.00	24.58	0.00	2.16	0.10	0.00	2.26	0.00	62.9	0.0	0.	0.00
114	21.100	32.85	0.0	0.0	0.0	3.88	24.59	0.00	24.59	0.00	2.17	0.10	0.00	2.27	0.00	65.0	0.0	0.	0.00
115	21.000	32.85	0.0	0.0	0.0	3.85	24.59	0.00	24.59	0.00	2.18	0.10	0.00	2.27	0.00	67.1	0.0	0.	0.00
116	20.900	32.84	0.0	0.0	0.0	3.82	24.60	0.00	24.60	0.00	2.19	0.10	0.00	2.28	0.00	69.1	0.0	0.	0.00
117	20.800	32.84	0.0	0.0	0.0	3.80	24.60	0.00	24.60	0.00	2.19	0.10	0.00	2.29	0.00	71.2	0.0	0.	0.00
118	20.700	32.84	0.0	0.0	0.0	3.77	24.61	0.00	24.61	0.00	2.20	0.10	0.00	2.30	0.00	73.2	0.0	0.	0.00
119	20.600	32.84	0.0	0.0	0.0	3.74	24.61	0.00	24.61	0.00	2.21	0.10	0.00	2.31	0.00	75.3	0.0	0.	0.00
120	20.500	32.83	0.0	0.0	0.0	3.72	24.62	0.00	24.62	0.00	2.22	0.10	0.00	2.31	0.00	77.4	0.0	0.	0.00
121	20.400	32.83	0.0	0.0	0.0	3.70	24.62	0.00	24.62	0.00	2.23	0.10	0.00	2.32	0.00	79.4	0.0	0.	0.00
122	20.300	32.83	0.0	0.0	0.0	3.67	24.63	0.00	24.63	0.00	2.23	0.10	0.00	2.33	0.00	81.5	0.0	0.	0.00
123	20.200	32.82	0.0	0.0	0.0	3.65	24.63	0.00	24.63	0.00	2.24	0.10	0.00	2.34	0.00	83.5	0.0	0.	0.00
124	20.100	32.82	0.0	0.0	0.0	3.64	24.64	0.00	24.64	0.00	2.25	0.10	0.00	2.35	0.00	85.6	0.0	0.	0.00
125	20.000	32.82	0.0	0.0	0.0	3.62	24.64	0.00	24.64	0.00	2.26	0.10	0.00	2.36	0.00	87.6	0.0	0.	0.00
126	19.900	32.81	0.0	0.0	0.0	3.60	24.65	0.00	24.65	0.00	2.27	0.10	0.00	2.36	0.00	89.7	0.0	0.	0.00
127	19.800	32.81	0.0	0.0	0.0	3.59	24.65	0.00	24.65	0.00	2.27	0.10	0.00	2.37	0.00	91.8	0.0	0.	0.00
128	19.700	32.81	0.0	0.0	0.0	3.57	24.66	0.00	24.66	0.00	2.28	0.10	0.00	2.38	0.00	93.8	0.0	0.	0.00
129	19.600	32.81	0.0	0.0	0.0	3.56	24.66	0.00	24.66	0.00	2.29	0.10	0.00	2.39	0.00	95.9	0.0	0.	0.00
130	19.500	32.80	0.0	0.0	0.0	3.55	24.67	0.00	24.67	0.00	2.30	0.10	0.00	2.40	0.00	97.9	0.0	0.	0.00
131	19.400	32.80	0.0	0.0	0.0	3.58	24.62	0.00	24.62	0.00	2.31	0.10	0.00	2.40	0.00	100.0	0.0	0.	0.00
132	19.300	32.80	0.0	0.0	0.0	4.93	22.43	0.00	22.43	0.00	2.34	0.10	0.00	2.44	0.00	100.1	0.0	0.	0.00
133	19.200	32.79	0.0	0.0	0.0	4.98	22.79	0.00	22.79	0.00	2.35	0.10	0.00	2.45	0.00	100.2	0.0	0.	0.00
134	19.100	32.79	0.0	0.0	0.0	5.02	23.15	0.00	23.15	0.00	2.35	0.10	0.00	2.45	0.00	100.3	0.0	0.	0.00
135	19.000	32.78	0.0	0.0	0.0	5.05	23.50	0.00	23.50	0.00	2.36	0.10	0.00	2.46	0.00	100.4	0.0	0.	0.00
136	18.900	32.78	0.0	0.0	0.0	5.08	23.85	0.00	23.85	0.00	2.37	0.10	0.00	2.47	0.00	100.5	0.0	0.	0.00
137	18.800	32.78	0.0	0.0	0.0	5.11	24.20	0.00	24.20	0.00	2.37	0.10	0.00	2.47	0.00	100.6	0.0	0.	0.00
138	18.700	32.77	0.0	0.0	0.0	5.13	24.54	0.00	24.54	0.00	2.38	0.10	0.00	2.48	0.00	100.7	0.0	0.	0.00
139	18.600	32.77	0.0	0.0	0.0	5.15	24.88	0.00	24.88	0.00	2.38	0.10	0.00	2.48	0.00	100.8	0.0	0.	0.00
140	18.500	32.76	0.0	0.0	0.0	5.17	25.22	0.00	25.22	0.00	2.39	0.10	0.00	2.49	0.00	100.9	0.0	0.	0.00
141	18.400	32.76	0.0	0.0	0.0	5.18	25.56	0.00	25.56	0.00	2.40	0.10	0.00	2.50	0.00	101.0	0.0	0.	0.00
142	18.300	32.76	0.0	0.0	0.0	5.19	25.89	0.00	25.89	0.00	2.40	0.10	0.00	2.50	0.00	101.1	0.0	0.	0.00
143	18.200	32.75	0.0	0.0	0.0	5.20	26.22	0.00	26.22	0.00	2.41	0.10	0.00	2.51	0.00	101.2	0.0	0.	0.00
144	18.100	32.75	0.0	0.0	0.0	5.21	26.54	0.00	26.54	0.00	2.41	0.10	0.00	2.52	0.00	101.3	0.0	0.	0.00
145	18.000	32.74	0.0	0.0	0.0	5.21	26.87	0.00	26.87	0.00	2.42	0.10	0.00	2.52	0.00	101.4	0.0	0.	0.00
146	17.900	32.74	0.0	0.0	0.0	5.21	27.19	0.00	27.19	0.00	2.42	0.10	0.00	2.53	0.00	101.5	0.0	0.	0.00
147	17.800	32.73	0.0	0.0	0.0	5.21	27.50	0.00	27.50	0.00	2.43	0.10	0.00	2.53	0.00	101.6	0.0	0.	0.00

148	17.700	32.73	0.0	0.0	0.0	5.20	27.82	0.00	27.82	0.00	2.44	0.10	0.00	2.54	0.00	101.7	0.0	0.	0.00
149	17.600	32.73	0.0	0.0	0.0	5.19	28.13	0.00	28.13	0.00	2.44	0.10	0.00	2.55	0.00	101.8	0.0	0.	0.00
150	17.500	32.72	0.0	0.0	0.0	5.18	28.44	0.00	28.44	0.00	2.45	0.10	0.00	2.55	0.00	101.9	0.0	0.	0.00
151	17.400	32.72	0.0	0.0	0.0	5.17	28.74	0.00	28.74	0.00	2.45	0.10	0.00	2.56	0.00	102.0	0.0	0.	0.00
152	17.300	32.71	0.0	0.0	0.0	5.16	29.05	0.00	29.05	0.00	2.46	0.10	0.00	2.56	0.00	102.1	0.0	0.	0.00
153	17.200	32.71	0.0	0.0	0.0	5.14	29.35	0.00	29.35	0.00	2.46	0.11	0.00	2.57	0.00	102.2	0.0	0.	0.00
154	17.100	32.71	0.0	0.0	0.0	5.12	29.64	0.00	29.64	0.00	2.47	0.11	0.00	2.58	0.00	102.3	0.0	0.	0.00
155	17.000	32.70	0.0	0.0	0.0	5.10	29.94	0.00	29.94	0.00	2.48	0.11	0.00	2.58	0.00	102.4	0.0	0.	0.00
156	16.900	32.70	0.0	0.0	0.0	5.08	30.23	0.00	30.23	0.00	2.48	0.11	0.00	2.59	0.00	102.6	0.0	0.	0.00
157	16.800	32.69	0.0	0.0	0.0	5.05	30.52	0.00	30.52	0.00	2.49	0.11	0.00	2.59	0.00	102.7	0.0	0.	0.00
158	16.700	32.69	0.0	0.0	0.0	5.03	30.81	0.00	30.81	0.00	2.49	0.11	0.00	2.60	0.00	102.8	0.0	0.	0.00
159	16.600	32.69	0.0	0.0	0.0	5.00	31.09	0.00	31.09	0.00	2.50	0.11	0.00	2.61	0.00	102.9	0.0	0.	0.00
160	16.500	32.68	0.0	0.0	0.0	4.97	31.37	0.00	31.37	0.00	2.51	0.11	0.00	2.61	0.00	103.0	0.0	0.	0.00
161	16.400	32.68	0.0	0.0	0.0	4.94	31.65	0.00	31.65	0.00	2.51	0.11	0.00	2.62	0.00	103.1	0.0	0.	0.00
162	16.300	32.67	0.0	0.0	0.0	4.91	31.93	0.00	31.93	0.00	2.52	0.11	0.00	2.62	0.00	103.2	0.0	0.	0.00
163	16.200	32.67	0.0	0.0	0.0	4.87	32.20	0.00	32.20	0.00	2.52	0.11	0.00	2.63	0.00	103.3	0.0	0.	0.00
164	16.100	32.67	0.0	0.0	0.0	4.84	32.48	0.00	32.48	0.00	2.53	0.11	0.00	2.64	0.00	103.4	0.0	0.	0.00
165	16.000	32.66	0.0	0.0	0.0	4.80	32.74	0.00	32.74	0.00	2.53	0.11	0.00	2.64	0.00	103.5	0.0	0.	0.00
166	15.900	32.66	0.0	0.0	0.0	4.76	33.01	0.00	33.01	0.00	2.54	0.11	0.00	2.65	0.00	103.6	0.0	0.	0.00
167	15.800	32.65	0.0	0.0	0.0	4.73	33.28	0.00	33.28	0.00	2.55	0.11	0.00	2.66	0.00	103.7	0.0	0.	0.00
168	15.700	32.65	0.0	0.0	0.0	4.69	33.54	0.00	33.54	0.00	2.55	0.11	0.00	2.66	0.00	103.8	0.0	0.	0.00
169	15.600	32.64	0.0	0.0	0.0	4.64	33.80	0.00	33.80	0.00	2.56	0.11	0.00	2.67	0.00	103.9	0.0	0.	0.00
170	15.500	32.64	0.0	0.0	0.0	4.60	34.06	0.00	34.06	0.00	2.56	0.11	0.00	2.67	0.00	104.0	0.0	0.	0.00
171	15.400	32.64	0.0	0.0	0.0	4.56	34.31	0.00	34.31	0.00	2.57	0.11	0.00	2.68	0.00	104.1	0.0	0.	0.00
172	15.300	32.63	0.0	0.0	0.0	4.51	34.56	0.00	34.56	0.00	2.57	0.11	0.00	2.69	0.00	104.2	0.0	0.	0.00
173	15.200	32.63	0.0	0.0	0.0	4.47	34.82	0.00	34.82	0.00	2.58	0.11	0.00	2.69	0.00	104.3	0.0	0.	0.00
174	15.100	32.62	0.0	0.0	0.0	4.42	35.06	0.00	35.06	0.00	2.58	0.11	0.00	2.70	0.00	104.4	0.0	0.	0.00
175	15.000	32.62	0.0	0.0	0.0	4.37	35.31	0.00	35.31	0.00	2.59	0.11	0.00	2.70	0.00	104.5	0.0	0.	0.00
176	14.900	32.62	0.0	0.0	0.0	4.33	35.55	0.00	35.55	0.00	2.60	0.11	0.00	2.71	0.00	104.6	0.0	0.	0.00
177	14.800	32.61	0.0	0.0	0.0	4.28	35.80	0.00	35.80	0.00	2.60	0.11	0.00	2.72	0.00	104.7	0.0	0.	0.00
178	14.700	32.61	0.0	0.0	0.0	4.23	36.04	0.00	36.04	0.00	2.61	0.11	0.00	2.72	0.00	104.8	0.0	0.	0.00
179	14.600	32.60	0.0	0.0	0.0	4.18	36.27	0.00	36.27	0.00	2.61	0.11	0.00	2.73	0.00	104.9	0.0	0.	0.00
180	14.500	32.60	0.0	0.0	0.0	4.12	36.50	0.00	36.50	0.00	2.62	0.11	0.00	2.73	0.00	105.0	0.0	0.	0.00
181	14.400	32.60	0.0	0.0	0.0	3.99	35.80	0.00	35.80	0.00	2.61	0.12	0.00	2.73	0.00	104.5	0.0	0.	0.00
182	14.300	32.60	0.0	0.0	0.0	3.87	35.13	0.00	35.13	0.00	2.60	0.12	0.00	2.72	0.00	104.1	0.0	0.	0.00
183	14.200	32.60	0.0	0.0	0.0	3.77	34.47	0.00	34.47	0.00	2.60	0.12	0.00	2.72	0.00	103.6	0.0	0.	0.00
184	14.100	32.60	0.0	0.0	0.0	3.70	33.84	0.00	33.84	0.00	2.59	0.12	0.00	2.71	0.00	103.1	0.0	0.	0.00
185	14.000	32.60	0.0	0.0	0.0	3.64	33.23	0.00	33.23	0.00	2.58	0.12	0.00	2.71	0.00	102.6	0.0	0.	0.00
186	13.900	32.59	0.0	0.0	0.0	3.59	32.63	0.00	32.63	0.00	2.58	0.12	0.00	2.70	0.00	102.2	0.0	0.	0.00
187	13.800	32.59	0.0	0.0	0.0	3.57	32.06	0.00	32.06	0.00	2.57	0.12	0.00	2.69	0.00	101.7	0.0	0.	0.00
188	13.700	32.59	0.0	0.0	0.0	3.55	31.50	0.00	31.50	0.00	2.56	0.12	0.00	2.69	0.00	101.2	0.0	0.	0.00
189	13.600	32.59	0.0	0.0	0.0	3.55	30.96	0.00	30.96	0.00	2.56	0.13	0.00	2.68	0.00	100.7	0.0	0.	0.00
190	13.500	32.59	0.0	0.0	0.0	3.56	30.43	0.00	30.43	0.00	2.55	0.13	0.00	2.68	0.00	100.3	0.0	0.	0.00
191	13.400	32.59	0.0	0.0	0.0	3.58	29.92	0.00	29.92	0.00	2.54	0.13	0.00	2.67	0.00	99.8	0.0	0.	0.00
192	13.300	32.59	0.0	0.0	0.0	3.60	29.43	0.00	29.43	0.00	2.54	0.13	0.00	2.66	0.00	99.3	0.0	0.	0.00
193	13.200	32.59	0.0	0.0	0.0	3.64	28.95	0.00	28.95	0.00	2.53	0.13	0.00	2.66	0.00	98.8	0.0	0.	0.00
194	13.100	32.59	0.0	0.0	0.0	3.69	28.49	0.00	28.49	0.00	2.52	0.13	0.00	2.65	0.00	98.4	0.0	0.	0.00
195	13.000	32.59	0.0	0.0	0.0	3.74	28.04	0.00	28.04	0.00	2.52	0.13	0.00	2.65	0.00	97.9	0.0	0.	0.00
196	12.900	32.59	0.0	0.0	0.0	3.79	27.60	0.00	27.60	0.00	2.51	0.13	0.00	2.64	0.00	97.4	0.0	0.	0.00
197	12.800	32.59	0.0	0.0	0.0	3.86	27.18	0.00	27.18	0.00	2.50	0.13	0.00	2.63	0.00	96.9	0.0	0.	0.00

198	12.700	32.58	0.0	0.0	0.0	3.92	26.77	0.00	26.77	0.00	2.50	0.13	0.00	2.63	0.00	96.5	0.0	0.	0.00
199	12.600	32.58	0.0	0.0	0.0	4.00	26.38	0.00	26.38	0.00	2.49	0.13	0.00	2.62	0.00	96.0	0.0	0.	0.00
200	12.500	32.58	0.0	0.0	0.0	4.07	25.99	0.00	25.99	0.00	2.48	0.13	0.00	2.62	0.00	95.5	0.0	0.	0.00
201	12.400	32.58	0.0	0.0	0.0	4.15	25.62	0.00	25.62	0.00	2.48	0.13	0.00	2.61	0.00	95.0	0.0	0.	0.00
202	12.300	32.58	0.0	0.0	0.0	4.23	25.26	0.00	25.26	0.00	2.47	0.13	0.00	2.60	0.00	94.6	0.0	0.	0.00
203	12.200	32.58	0.0	0.0	0.0	4.31	24.91	0.00	24.91	0.00	2.46	0.13	0.00	2.60	0.00	94.1	0.0	0.	0.00
204	12.100	32.58	0.0	0.0	0.0	4.40	24.57	0.00	24.57	0.00	2.46	0.13	0.00	2.59	0.00	93.6	0.0	0.	0.00
205	12.000	32.58	0.0	0.0	0.0	4.48	24.25	0.00	24.25	0.00	2.45	0.13	0.00	2.58	0.00	93.1	0.0	0.	0.00
206	11.900	32.58	0.0	0.0	0.0	4.57	23.93	0.00	23.93	0.00	2.45	0.13	0.00	2.58	0.00	92.7	0.0	0.	0.00
207	11.800	32.58	0.0	0.0	0.0	4.66	23.62	0.00	23.62	0.00	2.44	0.13	0.00	2.57	0.00	92.2	0.0	0.	0.00
208	11.700	32.58	0.0	0.0	0.0	4.74	23.32	0.00	23.32	0.00	2.43	0.13	0.00	2.56	0.00	91.7	0.0	0.	0.00
209	11.600	32.58	0.0	0.0	0.0	4.83	23.03	0.00	23.03	0.00	2.43	0.13	0.00	2.56	0.00	91.2	0.0	0.	0.00
210	11.500	32.57	0.0	0.0	0.0	4.92	22.75	0.00	22.75	0.00	2.42	0.13	0.00	2.55	0.00	90.8	0.0	0.	0.00
211	11.400	32.57	0.0	0.0	0.0	5.01	22.48	0.00	22.48	0.00	2.41	0.13	0.00	2.54	0.00	90.3	0.0	0.	0.00
212	11.300	32.57	0.0	0.0	0.0	5.09	22.21	0.00	22.21	0.00	2.41	0.13	0.00	2.54	0.00	89.8	0.0	0.	0.00
213	11.200	32.57	0.0	0.0	0.0	5.18	21.96	0.00	21.96	0.00	2.40	0.13	0.00	2.53	0.00	89.4	0.0	0.	0.00
214	11.100	32.57	0.0	0.0	0.0	5.27	21.71	0.00	21.71	0.00	2.39	0.13	0.00	2.52	0.00	88.9	0.0	0.	0.00
215	11.000	32.57	0.0	0.0	0.0	5.35	21.47	0.00	21.47	0.00	2.39	0.13	0.00	2.52	0.00	88.4	0.0	0.	0.00
216	10.900	32.57	0.0	0.0	0.0	5.43	21.24	0.00	21.24	0.00	2.38	0.13	0.00	2.51	0.00	87.9	0.0	0.	0.00
217	10.800	32.57	0.0	0.0	0.0	5.51	21.01	0.00	21.01	0.00	2.38	0.13	0.00	2.50	0.00	87.5	0.0	0.	0.00
218	10.700	32.57	0.0	0.0	0.0	5.59	20.79	0.00	20.79	0.00	2.37	0.13	0.00	2.50	0.00	87.0	0.0	0.	0.00
219	10.600	32.57	0.0	0.0	0.0	5.67	20.58	0.00	20.58	0.00	2.36	0.13	0.00	2.49	0.00	86.5	0.0	0.	0.00
220	10.500	32.57	0.0	0.0	0.0	5.74	20.38	0.00	20.38	0.00	2.36	0.13	0.00	2.48	0.00	86.0	0.0	0.	0.00
221	10.400	32.56	0.0	0.0	0.0	5.82	20.18	0.00	20.18	0.00	2.35	0.13	0.00	2.48	0.00	85.6	0.0	0.	0.00
222	10.300	32.56	0.0	0.0	0.0	5.89	19.98	0.00	19.98	0.00	2.35	0.13	0.00	2.47	0.00	85.1	0.0	0.	0.00
223	10.200	32.56	0.0	0.0	0.0	5.96	19.80	0.00	19.80	0.00	2.34	0.12	0.00	2.46	0.00	84.6	0.0	0.	0.00
224	10.100	32.56	0.0	0.0	0.0	6.03	19.62	0.00	19.62	0.00	2.33	0.12	0.00	2.46	0.00	84.1	0.0	0.	0.00
225	10.000	32.56	0.0	0.0	0.0	6.09	19.44	0.00	19.44	0.00	2.33	0.12	0.00	2.45	0.00	83.7	0.0	0.	0.00
226	9.900	32.56	0.0	0.0	0.0	6.15	19.27	0.00	19.27	0.00	2.32	0.12	0.00	2.44	0.00	83.2	0.0	0.	0.00
227	9.800	32.56	0.0	0.0	0.0	6.21	19.10	0.00	19.10	0.00	2.31	0.12	0.00	2.44	0.00	82.7	0.0	0.	0.00
228	9.700	32.56	0.0	0.0	0.0	6.27	18.94	0.00	18.94	0.00	2.31	0.12	0.00	2.43	0.00	82.2	0.0	0.	0.00
229	9.600	32.56	0.0	0.0	0.0	6.33	18.79	0.00	18.79	0.00	2.30	0.12	0.00	2.42	0.00	81.8	0.0	0.	0.00
230	9.500	32.56	0.0	0.0	0.0	6.38	18.64	0.00	18.64	0.00	2.30	0.12	0.00	2.42	0.00	81.3	0.0	0.	0.00
231	9.400	32.56	0.0	0.0	0.0	6.43	18.49	0.00	18.49	0.00	2.29	0.12	0.00	2.41	0.00	80.8	0.0	0.	0.00
232	9.300	32.56	0.0	0.0	0.0	6.48	18.35	0.00	18.35	0.00	2.28	0.12	0.00	2.40	0.00	80.3	0.0	0.	0.00
233	9.200	32.55	0.0	0.0	0.0	6.52	18.22	0.00	18.22	0.00	2.28	0.12	0.00	2.40	0.00	79.9	0.0	0.	0.00
234	9.100	32.55	0.0	0.0	0.0	6.57	18.08	0.00	18.08	0.00	2.27	0.12	0.00	2.39	0.00	79.4	0.0	0.	0.00
235	9.000	32.55	0.0	0.0	0.0	6.61	17.96	0.00	17.96	0.00	2.27	0.12	0.00	2.39	0.00	78.9	0.0	0.	0.00
236	8.900	32.55	0.0	0.0	0.0	6.65	17.83	0.00	17.83	0.00	2.26	0.12	0.00	2.38	0.00	78.4	0.0	0.	0.00
237	8.800	32.55	0.0	0.0	0.0	6.68	17.71	0.00	17.71	0.00	2.26	0.12	0.00	2.37	0.00	78.0	0.0	0.	0.00
238	8.700	32.55	0.0	0.0	0.0	6.71	17.59	0.00	17.59	0.00	2.25	0.12	0.00	2.37	0.00	77.5	0.0	0.	0.00
239	8.600	32.55	0.0	0.0	0.0	6.75	17.48	0.00	17.48	0.00	2.24	0.12	0.00	2.36	0.00	77.0	0.0	0.	0.00
240	8.500	32.55	0.0	0.0	0.0	6.77	17.37	0.00	17.37	0.00	2.24	0.12	0.00	2.35	0.00	76.6	0.0	0.	0.00
241	8.400	32.55	0.0	0.0	0.0	6.80	17.26	0.00	17.26	0.00	2.23	0.12	0.00	2.35	0.00	76.1	0.0	0.	0.00
242	8.300	32.55	0.0	0.0	0.0	6.82	17.16	0.00	17.16	0.00	2.23	0.12	0.00	2.34	0.00	75.6	0.0	0.	0.00
243	8.200	32.55	0.0	0.0	0.0	6.84	17.06	0.00	17.06	0.00	2.22	0.11	0.00	2.34	0.00	75.1	0.0	0.	0.00
244	8.100	32.54	0.0	0.0	0.0	6.86	16.96	0.00	16.96	0.00	2.21	0.11	0.00	2.33	0.00	74.7	0.0	0.	0.00
245	8.000	32.54	0.0	0.0	0.0	6.88	16.87	0.00	16.87	0.00	2.21	0.11	0.00	2.32	0.00	74.2	0.0	0.	0.00
246	7.900	32.54	0.0	0.0	0.0	6.89	16.78	0.00	16.78	0.00	2.20	0.11	0.00	2.32	0.00	73.7	0.0	0.	0.00
247	7.800	32.54	0.0	0.0	0.0	6.90	16.69	0.00	16.69	0.00	2.20	0.11	0.00	2.31	0.00	73.2	0.0	0.	0.00

248	7.700	32.54	0.0	0.0	0.0	6.91	16.60	0.00	16.60	0.00	2.19	0.11	0.00	2.30	0.00	72.8	0.0	0.	0.00
249	7.600	32.54	0.0	0.0	0.0	6.92	16.52	0.00	16.52	0.00	2.19	0.11	0.00	2.30	0.00	72.3	0.0	0.	0.00
250	7.500	32.54	0.0	0.0	0.0	6.92	16.44	0.00	16.44	0.00	2.18	0.11	0.00	2.29	0.00	71.8	0.0	0.	0.00
251	7.400	32.54	0.0	0.0	0.0	6.92	16.36	0.00	16.36	0.00	2.17	0.11	0.00	2.29	0.00	71.3	0.0	0.	0.00
252	7.300	32.54	0.0	0.0	0.0	6.92	16.29	0.00	16.29	0.00	2.17	0.11	0.00	2.28	0.00	70.9	0.0	0.	0.00
253	7.200	32.54	0.0	0.0	0.0	6.92	16.22	0.00	16.22	0.00	2.16	0.11	0.00	2.27	0.00	70.4	0.0	0.	0.00
254	7.100	32.54	0.0	0.0	0.0	6.92	16.14	0.00	16.14	0.00	2.16	0.11	0.00	2.27	0.00	69.9	0.0	0.	0.00
255	7.000	32.54	0.0	0.0	0.0	6.91	16.08	0.00	16.08	0.00	2.15	0.11	0.00	2.26	0.00	69.4	0.0	0.	0.00
256	6.900	32.53	0.0	0.0	0.0	6.90	16.01	0.00	16.01	0.00	2.15	0.11	0.00	2.26	0.00	69.0	0.0	0.	0.00
257	6.800	32.53	0.0	0.0	0.0	6.89	15.94	0.00	15.94	0.00	2.14	0.11	0.00	2.25	0.00	68.5	0.0	0.	0.00
258	6.700	32.53	0.0	0.0	0.0	6.88	15.88	0.00	15.88	0.00	2.14	0.11	0.00	2.24	0.00	68.0	0.0	0.	0.00
259	6.600	32.53	0.0	0.0	0.0	6.86	15.82	0.00	15.82	0.00	2.13	0.11	0.00	2.24	0.00	67.5	0.0	0.	0.00
260	6.500	32.53	0.0	0.0	0.0	6.85	15.76	0.00	15.76	0.00	2.12	0.11	0.00	2.23	0.00	67.1	0.0	0.	0.00
261	6.400	32.53	0.0	0.0	0.0	6.83	15.71	0.00	15.71	0.00	2.12	0.11	0.00	2.23	0.00	66.6	0.0	0.	0.00
262	6.300	32.53	0.0	0.0	0.0	6.81	15.65	0.00	15.65	0.00	2.11	0.11	0.00	2.22	0.00	66.1	0.0	0.	0.00
263	6.200	32.53	0.0	0.0	0.0	6.79	15.60	0.00	15.60	0.00	2.11	0.11	0.00	2.22	0.00	65.6	0.0	0.	0.00
264	6.100	32.53	0.0	0.0	0.0	6.76	15.55	0.00	15.55	0.00	2.10	0.11	0.00	2.21	0.00	65.2	0.0	0.	0.00
265	6.000	32.53	0.0	0.0	0.0	6.74	15.50	0.00	15.50	0.00	2.10	0.11	0.00	2.20	0.00	64.7	0.0	0.	0.00
266	5.900	32.53	0.0	0.0	0.0	6.71	15.45	0.00	15.45	0.00	2.09	0.11	0.00	2.20	0.00	64.2	0.0	0.	0.00
267	5.800	32.53	0.0	0.0	0.0	6.68	15.40	0.00	15.40	0.00	2.09	0.11	0.00	2.19	0.00	63.8	0.0	0.	0.00
268	5.700	32.52	0.0	0.0	0.0	6.65	15.35	0.00	15.35	0.00	2.08	0.11	0.00	2.19	0.00	63.3	0.0	0.	0.00
269	5.600	32.52	0.0	0.0	0.0	6.62	15.31	0.00	15.31	0.00	2.08	0.11	0.00	2.18	0.00	62.8	0.0	0.	0.00
270	5.500	32.52	0.0	0.0	0.0	6.58	15.27	0.00	15.27	0.00	2.07	0.11	0.00	2.18	0.00	62.3	0.0	0.	0.00
271	5.400	32.52	0.0	0.0	0.0	6.55	15.23	0.00	15.23	0.00	2.07	0.11	0.00	2.17	0.00	61.9	0.0	0.	0.00
272	5.300	32.52	0.0	0.0	0.0	6.51	15.19	0.00	15.19	0.00	2.06	0.11	0.00	2.16	0.00	61.4	0.0	0.	0.00
273	5.200	32.52	0.0	0.0	0.0	6.47	15.15	0.00	15.15	0.00	2.05	0.10	0.00	2.16	0.00	60.9	0.0	0.	0.00
274	5.100	32.52	0.0	0.0	0.0	6.43	15.11	0.00	15.11	0.00	2.05	0.10	0.00	2.15	0.00	60.4	0.0	0.	0.00
275	5.000	32.52	0.0	0.0	0.0	6.39	15.07	0.00	15.07	0.00	2.04	0.10	0.00	2.15	0.00	60.0	0.0	0.	0.00
276	4.900	32.52	0.0	0.0	0.0	6.35	15.04	0.00	15.04	0.00	2.04	0.10	0.00	2.14	0.00	59.5	0.0	0.	0.00
277	4.800	32.52	0.0	0.0	0.0	6.31	15.00	0.00	15.00	0.00	2.03	0.10	0.00	2.14	0.00	59.0	0.0	0.	0.00
278	4.700	32.52	0.0	0.0	0.0	6.26	14.97	0.00	14.97	0.00	2.03	0.10	0.00	2.13	0.00	58.5	0.0	0.	0.00
279	4.600	32.51	0.0	0.0	0.0	6.22	14.94	0.00	14.94	0.00	2.02	0.10	0.00	2.13	0.00	58.1	0.0	0.	0.00
280	4.500	32.51	0.0	0.0	0.0	6.17	14.91	0.00	14.91	0.00	2.02	0.10	0.00	2.12	0.00	57.6	0.0	0.	0.00
281	4.400	32.51	0.0	0.0	0.0	6.12	14.88	0.00	14.88	0.00	2.01	0.10	0.00	2.12	0.00	57.1	0.0	0.	0.00
282	4.300	32.51	0.0	0.0	0.0	6.07	14.85	0.00	14.85	0.00	2.01	0.10	0.00	2.11	0.00	56.6	0.0	0.	0.00
283	4.200	32.51	0.0	0.0	0.0	6.02	14.82	0.00	14.82	0.00	2.00	0.10	0.00	2.10	0.00	56.2	0.0	0.	0.00
284	4.100	32.51	0.0	0.0	0.0	5.97	14.79	0.00	14.79	0.00	2.00	0.10	0.00	2.10	0.00	55.7	0.0	0.	0.00
285	4.000	32.51	0.0	0.0	0.0	5.91	14.76	0.00	14.76	0.00	1.99	0.10	0.00	2.09	0.00	55.2	0.0	0.	0.00
286	3.900	32.51	0.0	0.0	0.0	5.86	14.74	0.00	14.74	0.00	1.99	0.10	0.00	2.09	0.00	54.7	0.0	0.	0.00
287	3.800	32.51	0.0	0.0	0.0	5.80	14.71	0.00	14.71	0.00	1.98	0.10	0.00	2.08	0.00	54.3	0.0	0.	0.00
288	3.700	32.51	0.0	0.0	0.0	5.75	14.69	0.00	14.69	0.00	1.98	0.10	0.00	2.08	0.00	53.8	0.0	0.	0.00
289	3.600	32.51	0.0	0.0	0.0	5.69	14.67	0.00	14.67	0.00	1.97	0.10	0.00	2.07	0.00	53.3	0.0	0.	0.00
290	3.500	32.51	0.0	0.0	0.0	5.63	14.64	0.00	14.64	0.00	1.97	0.10	0.00	2.07	0.00	52.8	0.0	0.	0.00
291	3.400	32.50	0.0	0.0	0.0	5.57	14.62	0.00	14.62	0.00	1.96	0.10	0.00	2.06	0.00	52.4	0.0	0.	0.00
292	3.300	32.50	0.0	0.0	0.0	5.51	14.60	0.00	14.60	0.00	1.96	0.10	0.00	2.06	0.00	51.9	0.0	0.	0.00
293	3.200	32.50	0.0	0.0	0.0	5.45	14.58	0.00	14.58	0.00	1.95	0.10	0.00	2.05	0.00	51.4	0.0	0.	0.00
294	3.100	32.50	0.0	0.0	0.0	5.39	14.56	0.00	14.56	0.00	1.95	0.10	0.00	2.05	0.00	50.9	0.0	0.	0.00
295	3.000	32.50	0.0	0.0	0.0	5.32	14.54	0.00	14.54	0.00	1.94	0.10	0.00	2.04	0.00	50.5	0.0	0.	0.00
296	2.900	32.50	0.0	0.0	0.0	5.26	14.52	0.00	14.52	0.00	1.94	0.10	0.00	2.04	0.00	50.0	0.0	0.	0.00
297	2.800	32.50	0.0	0.0	0.0	5.22	14.50	0.00	14.50	0.00	1.94	0.10	0.00	2.04	0.00	50.0	0.0	0.	0.00

298	2.700	32.50	0.0	0.0	0.0	5.18	14.48	0.00	14.48	0.00	1.93	0.10	0.00	2.04	0.00	50.0	0.0	0.	0.00
299	2.600	32.50	0.0	0.0	0.0	5.14	14.47	0.00	14.47	0.00	1.93	0.10	0.00	2.03	0.00	50.0	0.0	0.	0.00
300	2.500	32.50	0.0	0.0	0.0	5.10	14.45	0.00	14.45	0.00	1.93	0.10	0.00	2.03	0.00	50.0	0.0	0.	0.00
301	2.400	32.50	0.0	0.0	0.0	5.06	14.43	0.00	14.43	0.00	1.93	0.10	0.00	2.03	0.00	50.0	0.0	0.	0.00
302	2.300	32.50	0.0	0.0	0.0	5.02	14.41	0.00	14.41	0.00	1.93	0.10	0.00	2.03	0.00	50.0	0.0	0.	0.00
303	2.200	32.50	0.0	0.0	0.0	4.98	14.40	0.00	14.40	0.00	1.93	0.10	0.00	2.03	0.00	50.0	0.0	0.	0.00
304	2.100	32.50	0.0	0.0	0.0	4.94	14.38	0.00	14.38	0.00	1.93	0.10	0.00	2.03	0.00	50.0	0.0	0.	0.00
305	2.000	32.50	0.0	0.0	0.0	4.90	14.36	0.00	14.36	0.00	1.93	0.10	0.00	2.03	0.00	50.0	0.0	0.	0.00
306	1.900	32.50	0.0	0.0	0.0	4.87	14.35	0.00	14.35	0.00	1.93	0.10	0.00	2.03	0.00	50.0	0.0	0.	0.00
307	1.800	32.50	0.0	0.0	0.0	4.83	14.33	0.00	14.33	0.00	1.93	0.10	0.00	2.03	0.00	50.0	0.0	0.	0.00
308	1.700	32.50	0.0	0.0	0.0	4.79	14.31	0.00	14.31	0.00	1.93	0.10	0.00	2.03	0.00	50.0	0.0	0.	0.00
309	1.600	32.50	0.0	0.0	0.0	4.76	14.30	0.00	14.30	0.00	1.92	0.10	0.00	2.03	0.00	50.0	0.0	0.	0.00
310	1.500	32.50	0.0	0.0	0.0	4.72	14.28	0.00	14.28	0.00	1.92	0.10	0.00	2.02	0.00	50.0	0.0	0.	0.00
311	1.400	32.50	0.0	0.0	0.0	4.69	14.26	0.00	14.26	0.00	1.92	0.10	0.00	2.02	0.00	50.0	0.0	0.	0.00
312	1.300	32.50	0.0	0.0	0.0	4.65	14.25	0.00	14.25	0.00	1.92	0.10	0.00	2.02	0.00	50.0	0.0	0.	0.00
313	1.200	32.50	0.0	0.0	0.0	4.62	14.23	0.00	14.23	0.00	1.92	0.10	0.00	2.02	0.00	50.0	0.0	0.	0.00
314	1.100	32.50	0.0	0.0	0.0	4.58	14.22	0.00	14.22	0.00	1.92	0.10	0.00	2.02	0.00	50.0	0.0	0.	0.00
315	1.000	32.50	0.0	0.0	0.0	4.55	14.20	0.00	14.20	0.00	1.92	0.10	0.00	2.02	0.00	50.0	0.0	0.	0.00
316	0.900	32.50	0.0	0.0	0.0	4.52	14.18	0.00	14.18	0.00	1.92	0.10	0.00	2.02	0.00	50.0	0.0	0.	0.00
317	0.800	32.50	0.0	0.0	0.0	4.49	14.17	0.00	14.17	0.00	1.92	0.10	0.00	2.02	0.00	50.0	0.0	0.	0.00
318	0.700	32.50	0.0	0.0	0.0	4.46	14.15	0.00	14.15	0.00	1.92	0.10	0.00	2.02	0.00	50.0	0.0	0.	0.00
319	0.600	32.50	0.0	0.0	0.0	4.42	14.14	0.00	14.14	0.00	1.92	0.10	0.00	2.02	0.00	50.0	0.0	0.	0.00
320	0.500	32.50	0.0	0.0	0.0	4.39	14.12	0.00	14.12	0.00	1.91	0.10	0.00	2.01	0.00	50.0	0.0	0.	0.00
321	0.400	32.50	0.0	0.0	0.0	4.36	14.11	0.00	14.11	0.00	1.91	0.10	0.00	2.01	0.00	50.0	0.0	0.	0.00
322	0.300	32.50	0.0	0.0	0.0	4.33	14.09	0.00	14.09	0.00	1.91	0.10	0.00	2.01	0.00	50.0	0.0	0.	0.00
323	0.200	32.50	0.0	0.0	0.0	4.30	14.08	0.00	14.08	0.00	1.91	0.10	0.00	2.01	0.00	50.0	0.0	0.	0.00
324	0.100	32.50	0.0	0.0	0.0	4.27	14.06	0.00	14.06	0.00	1.91	0.10	0.00	2.01	0.00	50.0	0.0	0.	0.00
325	0.000	32.50	0.0	0.0	0.0	4.27	13.61	0.00	13.61	0.00	1.85	0.10	0.00	1.95	0.00	50.0	0.0	0.	0.00

SPECIAL REPORT: Fourmile Bayou Oxbow
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS #/100mL	CHL A *	MACRO	COLI	NCM
56	4.100	33.88	0.0	0.0	0.0	6.67	25.52	0.00	25.52	0.00	1.72	0.10	0.03	1.85	0.00	93.5	0.0	0.	0.00
57	4.000	33.85	0.0	0.0	0.0	6.55	25.55	0.00	25.55	0.00	1.75	0.10	0.02	1.87	0.00	91.9	0.0	0.	0.00
58	3.900	33.83	0.0	0.0	0.0	6.42	25.57	0.00	25.57	0.00	1.77	0.10	0.01	1.88	0.00	90.4	0.0	0.	0.00
59	3.800	33.80	0.0	0.0	0.0	6.29	25.59	0.00	25.59	0.00	1.80	0.10	0.00	1.89	0.00	88.8	0.0	0.	0.00
60	3.700	33.78	0.0	0.0	0.0	6.16	25.62	0.00	25.62	0.00	1.82	0.10	0.00	1.92	0.00	87.3	0.0	0.	0.00
61	3.600	33.76	0.0	0.0	0.0	6.02	25.64	0.00	25.64	0.00	1.84	0.10	0.00	1.94	0.00	85.7	0.0	0.	0.00
62	3.500	33.73	0.0	0.0	0.0	5.88	25.66	0.00	25.66	0.00	1.87	0.10	0.00	1.96	0.00	84.2	0.0	0.	0.00
63	3.400	33.71	0.0	0.0	0.0	5.74	25.69	0.00	25.69	0.00	1.89	0.10	0.00	1.99	0.00	82.6	0.0	0.	0.00
64	3.300	33.69	0.0	0.0	0.0	5.59	25.71	0.00	25.71	0.00	1.91	0.10	0.00	2.01	0.00	81.1	0.0	0.	0.00
65	3.200	33.66	0.0	0.0	0.0	5.45	25.73	0.00	25.73	0.00	1.94	0.10	0.00	2.03	0.00	79.5	0.0	0.	0.00
66	3.100	33.64	0.0	0.0	0.0	5.30	25.76	0.00	25.76	0.00	1.96	0.10	0.00	2.06	0.00	78.0	0.0	0.	0.00
67	3.000	33.61	0.0	0.0	0.0	5.14	25.78	0.00	25.78	0.00	1.98	0.10	0.00	2.08	0.00	76.4	0.0	0.	0.00
68	2.900	33.59	0.0	0.0	0.0	4.99	25.81	0.00	25.81	0.00	2.01	0.10	0.00	2.11	0.00	74.9	0.0	0.	0.00
69	2.800	33.57	0.0	0.0	0.0	4.83	25.83	0.00	25.83	0.00	2.03	0.10	0.00	2.13	0.00	73.3	0.0	0.	0.00

70	2.700	33.54	0.0	0.0	0.0	4.67	25.85	0.00	25.85	0.00	2.05	0.10	0.00	2.15	0.00	71.8	0.0	0.	0.00
71	2.600	33.52	0.0	0.0	0.0	4.51	25.88	0.00	25.88	0.00	2.08	0.10	0.00	2.18	0.00	70.2	0.0	0.	0.00
72	2.500	33.50	0.0	0.0	0.0	4.34	25.90	0.00	25.90	0.00	2.10	0.10	0.00	2.20	0.00	68.7	0.0	0.	0.00
73	2.400	33.47	0.0	0.0	0.0	4.18	25.92	0.00	25.92	0.00	2.13	0.10	0.00	2.22	0.00	67.1	0.0	0.	0.00
74	2.300	33.45	0.0	0.0	0.0	4.01	25.95	0.00	25.95	0.00	2.15	0.10	0.00	2.25	0.00	65.6	0.0	0.	0.00
75	2.200	33.42	0.0	0.0	0.0	3.83	25.97	0.00	25.97	0.00	2.17	0.10	0.00	2.27	0.00	64.0	0.0	0.	0.00
76	2.100	33.40	0.0	0.0	0.0	3.66	26.00	0.00	26.00	0.00	2.20	0.10	0.00	2.29	0.00	62.5	0.0	0.	0.00
77	2.000	33.38	0.0	0.0	0.0	3.48	26.02	0.00	26.02	0.00	2.22	0.10	0.00	2.32	0.00	61.0	0.0	0.	0.00
78	1.900	33.35	0.0	0.0	0.0	3.31	26.05	0.00	26.05	0.00	2.24	0.10	0.00	2.34	0.00	59.4	0.0	0.	0.00
79	1.800	33.33	0.0	0.0	0.0	3.13	26.07	0.00	26.07	0.00	2.27	0.10	0.00	2.37	0.00	57.9	0.0	0.	0.00
80	1.700	33.30	0.0	0.0	0.0	2.94	26.09	0.00	26.09	0.00	2.29	0.10	0.00	2.39	0.00	56.3	0.0	0.	0.00
81	1.600	33.28	0.0	0.0	0.0	2.76	26.12	0.00	26.12	0.00	2.31	0.10	0.00	2.41	0.00	54.8	0.0	0.	0.00
82	1.500	33.26	0.0	0.0	0.0	2.57	26.14	0.00	26.14	0.00	2.34	0.10	0.00	2.44	0.00	53.2	0.0	0.	0.00
83	1.400	33.23	0.0	0.0	0.0	2.38	26.17	0.00	26.17	0.00	2.36	0.10	0.00	2.46	0.00	51.7	0.0	0.	0.00
84	1.300	33.21	0.0	0.0	0.0	2.19	26.19	0.00	26.19	0.00	2.38	0.10	0.00	2.48	0.00	50.1	0.0	0.	0.00
85	1.200	33.19	0.0	0.0	0.0	2.00	26.22	0.00	26.22	0.00	2.41	0.10	0.00	2.51	0.00	48.6	0.0	0.	0.00
86	1.100	33.16	0.0	0.0	0.0	1.84	26.27	0.00	26.27	0.00	2.43	0.10	0.00	2.53	0.00	47.0	0.0	0.	0.00
87	1.000	33.14	0.0	0.0	0.0	1.70	26.33	0.00	26.33	0.00	2.45	0.10	0.00	2.56	0.00	45.5	0.0	0.	0.00
88	0.900	33.11	0.0	0.0	0.0	1.58	26.42	0.00	26.42	0.00	2.48	0.11	0.00	2.58	0.00	43.9	0.0	0.	0.00
89	0.800	33.09	0.0	0.0	0.0	1.47	26.52	0.00	26.52	0.00	2.50	0.11	0.00	2.61	0.00	42.4	0.0	0.	0.00
90	0.700	33.07	0.0	0.0	0.0	1.38	26.63	0.00	26.63	0.00	2.52	0.11	0.00	2.63	0.00	40.8	0.0	0.	0.00
91	0.600	33.04	0.0	0.0	0.0	1.30	26.75	0.00	26.75	0.00	2.54	0.11	0.00	2.66	0.00	39.3	0.0	0.	0.00
92	0.500	33.02	0.0	0.0	0.0	1.23	26.89	0.00	26.89	0.00	2.57	0.11	0.00	2.68	0.00	37.7	0.0	0.	0.00
93	0.400	33.00	0.0	0.0	0.0	1.17	27.03	0.00	27.03	0.00	2.59	0.11	0.00	2.71	0.00	36.2	0.0	0.	0.00
94	0.300	32.97	0.0	0.0	0.0	1.11	27.18	0.00	27.18	0.00	2.61	0.12	0.00	2.73	0.00	34.6	0.0	0.	0.00
95	0.200	32.95	0.0	0.0	0.0	1.06	27.33	0.00	27.33	0.00	2.64	0.12	0.00	2.76	0.00	33.1	0.0	0.	0.00
96	0.100	32.92	0.0	0.0	0.0	1.01	27.49	0.00	27.49	0.00	2.66	0.12	0.00	2.78	0.00	31.5	0.0	0.	0.00
97	0.000	32.90	0.0	0.0	0.0	1.06	27.55	0.00	27.55	0.00	2.66	0.12	0.00	2.78	0.00	30.0	0.0	0.	0.00

SPECIAL REPORT: Grassy Lake
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	ABOD#2 SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORG-N SETT **	ORG-N DECAY **	NH3 SRCE 1/da	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
1	28.200	7.17	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.55	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00	
2	28.100	7.17	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.56	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00	
3	28.000	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.56	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00	
4	27.900	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00	
5	27.800	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00	
6	27.700	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00	
7	27.600	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00	
8	27.500	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00	
9	27.400	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	
10	27.300	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	
11	27.200	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	
12	27.100	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.56	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00	
13	27.000	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00	

14	26.900	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
15	26.800	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
16	26.700	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
17	26.600	7.12	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
18	26.500	7.12	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
19	26.400	7.12	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
20	26.300	7.12	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
21	26.200	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
22	26.100	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
23	26.000	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
24	25.900	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
25	25.800	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
26	25.700	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
27	25.600	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
28	25.500	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
29	25.400	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
30	25.300	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
31	25.200	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
32	25.100	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
33	25.000	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
34	24.900	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.68	1.68	0.03	0.00	0.58	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
35	24.800	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.68	1.68	0.03	0.00	0.59	0.00	0.00	0.00	8.99	0.00	0.00	0.00	0.00
36	24.700	7.08	0.17	0.40	0.00	0.00	0.00	0.00	0.00	7.18	7.18	0.03	0.00	0.58	0.00	0.00	0.00	8.67	0.00	0.00	0.00	0.00
37	24.600	7.09	0.17	0.40	0.00	0.00	0.00	0.00	0.00	7.15	7.15	0.03	0.00	0.58	0.00	0.00	0.00	8.34	0.00	0.00	0.00	0.00
38	24.500	7.09	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.13	7.13	0.03	0.00	0.58	0.00	0.00	0.00	8.02	0.00	0.00	0.00	0.00
39	24.400	7.10	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.11	7.11	0.03	0.00	0.57	0.00	0.00	0.00	7.69	0.00	0.00	0.00	0.00
40	24.300	7.11	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.09	7.09	0.03	0.00	0.57	0.00	0.00	0.00	7.37	0.00	0.00	0.00	0.00
41	24.200	7.11	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.06	7.06	0.03	0.00	0.57	0.00	0.00	0.00	7.05	0.00	0.00	0.00	0.00
42	24.100	7.12	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.04	7.04	0.03	0.00	0.56	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
43	24.000	7.12	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.02	7.02	0.03	0.00	0.56	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
44	23.900	7.13	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.00	7.00	0.03	0.00	0.56	0.00	0.00	0.00	6.10	0.00	0.00	0.00	0.00
45	23.800	7.14	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.98	6.98	0.03	0.00	0.56	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00
46	23.700	7.14	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.95	6.95	0.03	0.00	0.55	0.00	0.00	0.00	5.47	0.00	0.00	0.00	0.00
47	23.600	7.15	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.93	6.93	0.03	0.00	0.55	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
48	23.500	7.15	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.91	6.91	0.03	0.00	0.54	0.00	0.00	0.00	4.85	0.00	0.00	0.00	0.00
49	23.400	7.16	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.89	6.89	0.03	0.00	0.54	0.00	0.00	0.00	4.54	0.00	0.00	0.00	0.00
50	23.300	7.16	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.87	6.87	0.03	0.00	0.54	0.00	0.00	0.00	4.23	0.00	0.00	0.00	0.00
51	23.200	7.17	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.85	6.85	0.03	0.00	0.53	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00
52	23.100	7.18	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.82	6.82	0.03	0.00	0.53	0.00	0.00	0.00	3.62	0.00	0.00	0.00	0.00
53	23.000	7.18	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.80	6.80	0.03	0.00	0.53	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
54	22.900	7.19	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.78	6.78	0.03	0.00	0.52	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
55	22.800	7.20	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	0.03	0.00	0.52	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
98	22.700	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	0.03	0.00	0.50	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
99	22.600	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	0.03	0.00	0.50	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
100	22.500	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	0.03	0.00	0.50	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
101	22.400	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.50	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00
102	22.300	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	3.64	0.00	0.00	0.00	0.00
103	22.200	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
104	22.100	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.00
105	22.000	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00

106	21.900	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.38	0.00	0.00	0.00	0.00
107	21.800	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00
108	21.700	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.75	0.00	0.00	0.00	0.00
109	21.600	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00
110	21.500	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
111	21.400	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.31	0.00	0.00	0.00	0.00
112	21.300	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
113	21.200	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.68	0.00	0.00	0.00	0.00
114	21.100	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.86	0.00	0.00	0.00	0.00
115	21.000	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
116	20.900	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.47	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00
117	20.800	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.42	0.00	0.00	0.00	0.00
118	20.700	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
119	20.600	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
120	20.500	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.97	0.00	0.00	0.00	0.00
121	20.400	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.16	0.00	0.00	0.00	0.00
122	20.300	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.34	0.00	0.00	0.00	0.00
123	20.200	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00
124	20.100	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.71	0.00	0.00	0.00	0.00
125	20.000	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.47	0.00	0.00	0.00	7.90	0.00	0.00	0.00	0.00
126	19.900	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.47	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00
127	19.800	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00
128	19.700	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.45	0.00	0.00	0.00	0.00
129	19.600	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.63	0.00	0.00	0.00	0.00
130	19.500	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.82	0.00	0.00	0.00	0.00
131	19.400	7.21	0.21	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
132	19.300	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
133	19.200	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
134	19.100	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
135	19.000	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
136	18.900	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
137	18.800	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
138	18.700	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
139	18.600	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
140	18.500	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
141	18.400	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
142	18.300	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
143	18.200	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
144	18.100	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
145	18.000	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
146	17.900	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
147	17.800	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00
148	17.700	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.13	0.00	0.00	0.00	0.00
149	17.600	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.14	0.00	0.00	0.00	0.00
150	17.500	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.14	0.00	0.00	0.00	0.00
151	17.400	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.15	0.00	0.00	0.00	0.00
152	17.300	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.16	0.00	0.00	0.00	0.00
153	17.200	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.17	0.00	0.00	0.00	0.00
154	17.100	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.17	0.00	0.00	0.00	0.00
155	17.000	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.18	0.00	0.00	0.00	0.00

156	16.900	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
157	16.800	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.50	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
158	16.700	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.50	0.00	0.00	0.00	9.20	0.00	0.00	0.00	0.00
159	16.600	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.21	0.00	0.00	0.00	0.00
160	16.500	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
161	16.400	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
162	16.300	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.23	0.00	0.00	0.00	0.00
163	16.200	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00
164	16.100	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.00
165	16.000	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.00
166	15.900	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.26	0.00	0.00	0.00	0.00
167	15.800	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.27	0.00	0.00	0.00	0.00
168	15.700	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
169	15.600	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
170	15.500	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.29	0.00	0.00	0.00	0.00
171	15.400	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.30	0.00	0.00	0.00	0.00
172	15.300	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.31	0.00	0.00	0.00	0.00
173	15.200	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.31	0.00	0.00	0.00	0.00
174	15.100	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00
175	15.000	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.33	0.00	0.00	0.00	0.00
176	14.900	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.00
177	14.800	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.00
178	14.700	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.35	0.00	0.00	0.00	0.00
179	14.600	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00
180	14.500	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00
181	14.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.47	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00
182	14.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.47	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
183	14.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00
184	14.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
185	14.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.15	0.00	0.00	0.00	0.00
186	13.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
187	13.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
188	13.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
189	13.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	8.98	0.00	0.00	0.00	0.00
190	13.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.94	0.00	0.00	0.00	0.00
191	13.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.90	0.00	0.00	0.00	0.00
192	13.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.85	0.00	0.00	0.00	0.00
193	13.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.81	0.00	0.00	0.00	0.00
194	13.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.77	0.00	0.00	0.00	0.00
195	13.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.73	0.00	0.00	0.00	0.00
196	12.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.68	0.00	0.00	0.00	0.00
197	12.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.64	0.00	0.00	0.00	0.00
198	12.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.60	0.00	0.00	0.00	0.00
199	12.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.55	0.00	0.00	0.00	0.00
200	12.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.51	0.00	0.00	0.00	0.00
201	12.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.47	0.00	0.00	0.00	0.00
202	12.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.43	0.00	0.00	0.00	0.00
203	12.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.38	0.00	0.00	0.00	0.00
204	12.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.34	0.00	0.00	0.00	0.00
205	12.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.30	0.00	0.00	0.00	0.00

206	11.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00
207	11.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.21	0.00	0.00	0.00	0.00
208	11.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.17	0.00	0.00	0.00	0.00
209	11.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.13	0.00	0.00	0.00	0.00
210	11.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.09	0.00	0.00	0.00	0.00
211	11.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.04	0.00	0.00	0.00	0.00
212	11.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
213	11.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	7.96	0.00	0.00	0.00	0.00
214	11.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00
215	11.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.87	0.00	0.00	0.00	0.00
216	10.900	7.23	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
217	10.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.79	0.00	0.00	0.00	0.00
218	10.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.75	0.00	0.00	0.00	0.00
219	10.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.70	0.00	0.00	0.00	0.00
220	10.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.66	0.00	0.00	0.00	0.00
221	10.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.62	0.00	0.00	0.00	0.00
222	10.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.58	0.00	0.00	0.00	0.00
223	10.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00
224	10.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.49	0.00	0.00	0.00	0.00
225	10.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00
226	9.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.41	0.00	0.00	0.00	0.00
227	9.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.36	0.00	0.00	0.00	0.00
228	9.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.32	0.00	0.00	0.00	0.00
229	9.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.28	0.00	0.00	0.00	0.00
230	9.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.24	0.00	0.00	0.00	0.00
231	9.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.19	0.00	0.00	0.00	0.00
232	9.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.15	0.00	0.00	0.00	0.00
233	9.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.11	0.00	0.00	0.00	0.00
234	9.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.07	0.00	0.00	0.00	0.00
235	9.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.02	0.00	0.00	0.00	0.00
236	8.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.98	0.00	0.00	0.00	0.00
237	8.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.94	0.00	0.00	0.00	0.00
238	8.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00
239	8.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
240	8.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
241	8.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
242	8.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
243	8.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
244	8.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
245	8.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
246	7.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
247	7.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
248	7.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
249	7.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.00
250	7.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00
251	7.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.34	0.00	0.00	0.00	0.00
252	7.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00
253	7.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00
254	7.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.22	0.00	0.00	0.00	0.00
255	7.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00

256	6.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.13	0.00	0.00	0.00	0.00
257	6.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.09	0.00	0.00	0.00	0.00
258	6.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
259	6.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.01	0.00	0.00	0.00	0.00
260	6.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.96	0.00	0.00	0.00	0.00
261	6.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
262	6.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.88	0.00	0.00	0.00	0.00
263	6.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.84	0.00	0.00	0.00	0.00
264	6.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.79	0.00	0.00	0.00	0.00
265	6.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00
266	5.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.71	0.00	0.00	0.00	0.00
267	5.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.67	0.00	0.00	0.00	0.00
268	5.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.62	0.00	0.00	0.00	0.00
269	5.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.58	0.00	0.00	0.00	0.00
270	5.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.54	0.00	0.00	0.00	0.00
271	5.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00
272	5.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.45	0.00	0.00	0.00	0.00
273	5.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.41	0.00	0.00	0.00	0.00
274	5.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.37	0.00	0.00	0.00	0.00
275	5.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.33	0.00	0.00	0.00	0.00
276	4.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.28	0.00	0.00	0.00	0.00
277	4.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00
278	4.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.20	0.00	0.00	0.00	0.00
279	4.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
280	4.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
281	4.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00
282	4.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00
283	4.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00
284	4.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.95	0.00	0.00	0.00	0.00
285	4.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00
286	3.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.86	0.00	0.00	0.00	0.00
287	3.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.82	0.00	0.00	0.00	0.00
288	3.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.78	0.00	0.00	0.00	0.00
289	3.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00
290	3.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00
291	3.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.65	0.00	0.00	0.00	0.00
292	3.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.61	0.00	0.00	0.00	0.00
293	3.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00
294	3.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.50	0.00	0.00	0.00	4.52	0.00	0.00	0.00	0.00
295	3.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.50	0.00	0.00	0.00	4.48	0.00	0.00	0.00	0.00
296	2.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
297	2.800	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
298	2.700	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
299	2.600	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
300	2.500	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
301	2.400	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
302	2.300	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
303	2.200	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
304	2.100	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
305	2.000	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00

306	1.900	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
307	1.800	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
308	1.700	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
309	1.600	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
310	1.500	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
311	1.400	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
312	1.300	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
313	1.200	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
314	1.100	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
315	1.000	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
316	0.900	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
317	0.800	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
318	0.700	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
319	0.600	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
320	0.500	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
321	0.400	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
322	0.300	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
323	0.200	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
324	0.100	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
325	0.000	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00

SPECIAL REPORT: Fourmile Bayou Oxbow
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	ABOD#2 SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORG-N SETT **	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
56	4.100	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.19	7.19	0.03	0.00	0.59	0.00	0.00	0.00	8.84	0.00	0.00	0.00	0.00
57	4.000	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.18	7.18	0.03	0.00	0.58	0.00	0.00	0.00	8.68	0.00	0.00	0.00	0.00
58	3.900	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.17	7.17	0.03	0.00	0.58	0.00	0.00	0.00	8.53	0.00	0.00	0.00	0.00
59	3.800	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.16	7.16	0.03	0.00	0.58	0.00	0.00	0.00	8.37	0.00	0.00	0.00	0.00
60	3.700	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.15	7.15	0.03	0.00	0.57	0.00	0.00	0.00	8.22	0.00	0.00	0.00	0.00
61	3.600	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.13	7.13	0.03	0.00	0.57	0.00	0.00	0.00	8.06	0.00	0.00	0.00	0.00
62	3.500	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.12	7.12	0.03	0.00	0.57	0.00	0.00	0.00	7.91	0.00	0.00	0.00	0.00
63	3.400	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.11	7.11	0.03	0.00	0.56	0.00	0.00	0.00	7.75	0.00	0.00	0.00	0.00
64	3.300	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.10	7.10	0.03	0.00	0.56	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00
65	3.200	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.09	7.09	0.03	0.00	0.55	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00
66	3.100	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.08	7.08	0.03	0.00	0.55	0.00	0.00	0.00	7.29	0.00	0.00	0.00	0.00
67	3.000	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.07	7.07	0.03	0.00	0.55	0.00	0.00	0.00	7.14	0.00	0.00	0.00	0.00
68	2.900	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.06	7.06	0.03	0.00	0.54	0.00	0.00	0.00	6.99	0.00	0.00	0.00	0.00
69	2.800	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.05	7.05	0.03	0.00	0.54	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
70	2.700	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.04	7.04	0.03	0.00	0.53	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
71	2.600	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.03	7.03	0.03	0.00	0.52	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
72	2.500	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.02	7.02	0.03	0.00	0.52	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00
73	2.400	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.01	7.01	0.03	0.00	0.51	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00
74	2.300	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.00	7.00	0.03	0.00	0.50	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00
75	2.200	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.99	6.99	0.03	0.00	0.50	0.00	0.00	0.00	5.93	0.00	0.00	0.00	0.00
76	2.100	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.98	6.98	0.03	0.00	0.49	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00

77	2.000	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.97	6.97	0.03	0.00	0.48	0.00	0.00	0.00	5.63	0.00	0.00	0.00	0.00
78	1.900	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.96	6.96	0.03	0.00	0.47	0.00	0.00	0.00	5.48	0.00	0.00	0.00	0.00
79	1.800	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.94	6.94	0.03	0.00	0.46	0.00	0.00	0.00	5.34	0.00	0.00	0.00	0.00
80	1.700	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.93	6.93	0.03	0.00	0.45	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00
81	1.600	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.92	6.92	0.03	0.00	0.44	0.00	0.00	0.00	5.04	0.00	0.00	0.00	0.00
82	1.500	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.91	6.91	0.03	0.00	0.43	0.00	0.00	0.00	4.89	0.00	0.00	0.00	0.00
83	1.400	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.90	6.90	0.03	0.00	0.42	0.00	0.00	0.00	4.74	0.00	0.00	0.00	0.00
84	1.300	7.16	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.89	6.89	0.03	0.00	0.40	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00
85	1.200	7.16	0.36	0.38	0.00	0.00	0.00	0.00	0.00	6.88	6.88	0.03	0.00	0.39	0.00	0.00	0.00	4.45	0.00	0.00	0.00	0.00
86	1.100	7.16	0.36	0.35	0.00	0.00	0.00	0.00	0.00	6.87	6.31	0.03	0.00	0.29	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00
87	1.000	7.17	0.36	0.33	0.00	0.00	0.00	0.00	0.00	6.86	5.82	0.03	0.00	0.22	0.00	0.00	0.00	4.16	0.00	0.00	0.00	0.00
88	0.900	7.17	0.36	0.30	0.00	0.00	0.00	0.00	0.00	6.85	5.40	0.03	0.00	0.16	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.00
89	0.800	7.17	0.35	0.28	0.00	0.00	0.00	0.00	0.00	6.84	5.03	0.03	0.00	0.13	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00
90	0.700	7.18	0.35	0.26	0.00	0.00	0.00	0.00	0.00	6.83	4.71	0.03	0.00	0.10	0.00	0.00	0.00	3.72	0.00	0.00	0.00	0.00
91	0.600	7.18	0.35	0.25	0.00	0.00	0.00	0.00	0.00	6.82	4.43	0.03	0.00	0.08	0.00	0.00	0.00	3.58	0.00	0.00	0.00	0.00
92	0.500	7.18	0.35	0.23	0.00	0.00	0.00	0.00	0.00	6.81	4.19	0.03	0.00	0.06	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00
93	0.400	7.18	0.35	0.22	0.00	0.00	0.00	0.00	0.00	6.80	3.97	0.03	0.00	0.05	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
94	0.300	7.19	0.35	0.21	0.00	0.00	0.00	0.00	0.00	6.79	3.77	0.03	0.00	0.04	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00
95	0.200	7.19	0.35	0.20	0.00	0.00	0.00	0.00	0.00	6.78	3.59	0.03	0.00	0.04	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
96	0.100	7.19	0.35	0.19	0.00	0.00	0.00	0.00	0.00	6.77	3.43	0.03	0.00	0.03	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
97	0.000	7.20	0.35	0.20	0.00	0.00	0.00	0.00	0.00	6.76	3.59	0.03	0.00	0.04	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00

SPECIAL REPORT: Grassy Lake
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m^3/s	ADVCTV m/s	DEPTH m	WIDTH m	VOLUME AREA m^3	SURFACE AREA m^2	X-SECT AREA m^2	PRISM m^3	TIDAL VELO m/s	TIDAL m^2/s	DISPRSN m/s	MEAN VELO m/s
1	28.30	28.20	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
2	28.20	28.10	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
3	28.10	28.00	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
4	28.00	27.90	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
5	27.90	27.80	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
6	27.80	27.70	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
7	27.70	27.60	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
8	27.60	27.50	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
9	27.50	27.40	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
10	27.40	27.30	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
11	27.30	27.20	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
12	27.20	27.10	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
13	27.10	27.00	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
14	27.00	26.90	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
15	26.90	26.80	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
16	26.80	26.70	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
17	26.70	26.60	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
18	26.60	26.50	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
19	26.50	26.40	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	
20	26.40	26.30	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045	

21	26.30	26.20	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045
22	26.20	26.10	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045
23	26.10	26.00	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045
24	26.00	25.90	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045
25	25.90	25.80	60.7000	0.045	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.042	0.045
26	25.80	25.70	51.9000	0.038	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.036	0.038
27	25.70	25.60	51.9000	0.038	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.036	0.038
28	25.60	25.50	51.9000	0.038	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.036	0.038
29	25.50	25.40	51.9000	0.038	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.036	0.038
30	25.40	25.30	51.9000	0.038	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.036	0.038
31	25.30	25.20	51.9000	0.038	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.036	0.038
32	25.20	25.10	51.9000	0.038	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.036	0.038
33	25.10	25.00	51.9000	0.038	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.036	0.038
34	25.00	24.90	51.9000	0.038	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.036	0.038
35	24.90	24.80	51.9000	0.038	1.01	1343.0	135643.	134300.0	1356.4	0.	0.000	0.036	0.038
36	24.80	24.70	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
37	24.70	24.60	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
38	24.60	24.50	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
39	24.50	24.40	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
40	24.40	24.30	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
41	24.30	24.20	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
42	24.20	24.10	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
43	24.10	24.00	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
44	24.00	23.90	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
45	23.90	23.80	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
46	23.80	23.70	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
47	23.70	23.60	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
48	23.60	23.50	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
49	23.50	23.40	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
50	23.40	23.30	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
51	23.30	23.20	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
52	23.20	23.10	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
53	23.10	23.00	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
54	23.00	22.90	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
55	22.90	22.80	51.9000	0.093	5.24	107.0	56068.	10700.0	560.7	0.	0.000	0.341	0.093
98	22.80	22.70	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
99	22.70	22.60	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
100	22.60	22.50	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
101	22.50	22.40	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
102	22.40	22.30	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
103	22.30	22.20	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
104	22.20	22.10	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
105	22.10	22.00	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
106	22.00	21.90	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
107	21.90	21.80	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
108	21.80	21.70	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
109	21.70	21.60	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
110	21.60	21.50	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
111	21.50	21.40	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
112	21.40	21.30	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159

113	21.30	21.20	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
114	21.20	21.10	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
115	21.10	21.00	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
116	21.00	20.90	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
117	20.90	20.80	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
118	20.80	20.70	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
119	20.70	20.60	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
120	20.60	20.50	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
121	20.50	20.40	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
122	20.40	20.30	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
123	20.30	20.20	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
124	20.20	20.10	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
125	20.10	20.00	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
126	20.00	19.90	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
127	19.90	19.80	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
128	19.80	19.70	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
129	19.70	19.60	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
130	19.60	19.50	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
131	19.50	19.40	60.7000	0.159	4.39	87.0	38193.	8700.0	381.9	0.	0.000	0.505	0.159
132	19.40	19.30	90.8000	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
133	19.30	19.20	90.8000	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
134	19.20	19.10	90.8000	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
135	19.10	19.00	90.8000	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
136	19.00	18.90	90.8000	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
137	18.90	18.80	90.8000	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
138	18.80	18.70	90.8000	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
139	18.70	18.60	90.8000	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
140	18.60	18.50	90.8016	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
141	18.50	18.40	90.8016	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
142	18.40	18.30	90.8016	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
143	18.30	18.20	90.8016	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
144	18.20	18.10	90.8016	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
145	18.10	18.00	90.8016	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
146	18.00	17.90	90.8016	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
147	17.90	17.80	90.8016	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
148	17.80	17.70	90.8016	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
149	17.70	17.60	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
150	17.60	17.50	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
151	17.50	17.40	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
152	17.40	17.30	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
153	17.30	17.20	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
154	17.20	17.10	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
155	17.10	17.00	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
156	17.00	16.90	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
157	16.90	16.80	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
158	16.80	16.70	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
159	16.70	16.60	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
160	16.60	16.50	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
161	16.50	16.40	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
162	16.40	16.30	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036

163	16.30	16.20	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
164	16.20	16.10	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
165	16.10	16.00	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
166	16.00	15.90	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
167	15.90	15.80	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
168	15.80	15.70	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
169	15.70	15.60	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
170	15.60	15.50	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
171	15.50	15.40	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
172	15.40	15.30	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
173	15.30	15.20	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
174	15.20	15.10	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
175	15.10	15.00	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
176	15.00	14.90	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
177	14.90	14.80	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
178	14.80	14.70	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
179	14.70	14.60	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
180	14.60	14.50	90.8020	0.036	1.34	1892.0	253528.	189200.0	2535.3	0.	0.000	0.042	0.036
181	14.50	14.40	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
182	14.40	14.30	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
183	14.30	14.20	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
184	14.20	14.10	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
185	14.10	14.00	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
186	14.00	13.90	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
187	13.90	13.80	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
188	13.80	13.70	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
189	13.70	13.60	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
190	13.60	13.50	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
191	13.50	13.40	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
192	13.40	13.30	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
193	13.30	13.20	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
194	13.20	13.10	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
195	13.10	13.00	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
196	13.00	12.90	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
197	12.90	12.80	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
198	12.80	12.70	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
199	12.70	12.60	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
200	12.60	12.50	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
201	12.50	12.40	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
202	12.40	12.30	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
203	12.30	12.20	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
204	12.20	12.10	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
205	12.10	12.00	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
206	12.00	11.90	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
207	11.90	11.80	90.8020	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
208	11.80	11.70	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
209	11.70	11.60	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
210	11.60	11.50	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
211	11.50	11.40	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
212	11.40	11.30	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010

213	11.30	11.20	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
214	11.20	11.10	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
215	11.10	11.00	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
216	11.00	10.90	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
217	10.90	10.80	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
218	10.80	10.70	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
219	10.70	10.60	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
220	10.60	10.50	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
221	10.50	10.40	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
222	10.40	10.30	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
223	10.30	10.20	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
224	10.20	10.10	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
225	10.10	10.00	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
226	10.00	9.90	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
227	9.90	9.80	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
228	9.80	9.70	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
229	9.70	9.60	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
230	9.60	9.50	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
231	9.50	9.40	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
232	9.40	9.30	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
233	9.30	9.20	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
234	9.20	9.10	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
235	9.10	9.00	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
236	9.00	8.90	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
237	8.90	8.80	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
238	8.80	8.70	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
239	8.70	8.60	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
240	8.60	8.50	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
241	8.50	8.40	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
242	8.40	8.30	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
243	8.30	8.20	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
244	8.20	8.10	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
245	8.10	8.00	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
246	8.00	7.90	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
247	7.90	7.80	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
248	7.80	7.70	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
249	7.70	7.60	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
250	7.60	7.50	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
251	7.50	7.40	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
252	7.40	7.30	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
253	7.30	7.20	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
254	7.20	7.10	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
255	7.10	7.00	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
256	7.00	6.90	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
257	6.90	6.80	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
258	6.80	6.70	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
259	6.70	6.60	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
260	6.60	6.50	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
261	6.50	6.40	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
262	6.40	6.30	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010

263	6.30	6.20	90.8033	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
264	6.20	6.10	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
265	6.10	6.00	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
266	6.00	5.90	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
267	5.90	5.80	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
268	5.80	5.70	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
269	5.70	5.60	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
270	5.60	5.50	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
271	5.50	5.40	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
272	5.40	5.30	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
273	5.30	5.20	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
274	5.20	5.10	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
275	5.10	5.00	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
276	5.00	4.90	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
277	4.90	4.80	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
278	4.80	4.70	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
279	4.70	4.60	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
280	4.60	4.50	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
281	4.50	4.40	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
282	4.40	4.30	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
283	4.30	4.20	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
284	4.20	4.10	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
285	4.10	4.00	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
286	4.00	3.90	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
287	3.90	3.80	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
288	3.80	3.70	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
289	3.70	3.60	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
290	3.60	3.50	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
291	3.50	3.40	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
292	3.40	3.30	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
293	3.30	3.20	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
294	3.20	3.10	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
295	3.10	3.00	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
296	3.00	2.90	90.8125	0.010	2.13	4092.0	871596.	409200.0	8716.0	0.	0.000	0.018	0.010
297	2.90	2.80	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
298	2.80	2.70	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
299	2.70	2.60	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
300	2.60	2.50	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
301	2.50	2.40	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
302	2.40	2.30	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
303	2.30	2.20	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
304	2.20	2.10	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
305	2.10	2.00	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
306	2.00	1.90	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
307	1.90	1.80	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
308	1.80	1.70	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
309	1.70	1.60	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
310	1.60	1.50	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
311	1.50	1.40	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
312	1.40	1.30	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061

313	1.30	1.20	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
314	1.20	1.10	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
315	1.10	1.00	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
316	1.00	0.90	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
317	0.90	0.80	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
318	0.80	0.70	90.8125	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
319	0.70	0.60	90.8126	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
320	0.60	0.50	90.8126	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
321	0.50	0.40	90.8126	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
322	0.40	0.30	90.8126	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
323	0.30	0.20	90.8126	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
324	0.20	0.10	90.8126	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061
325	0.10	0.00	90.8126	0.061	1.95	767.0	149565.	76700.0	1495.7	0.	0.000	0.098	0.061

SPECIAL REPORT: Fourmile Bayou Oxbow
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m³/s	ADVCTV m/s	DEPTH m	WIDTH m	AREA m²	VOLUME AREA m²	PRISM m³	SURFACE VELO m/s	X-SECT m²/s	TIDAL VELO m/s	TIDAL	DISPRSN	MEAN
56	4.20	4.10	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
57	4.10	4.00	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
58	4.00	3.90	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
59	3.90	3.80	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
60	3.80	3.70	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
61	3.70	3.60	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
62	3.60	3.50	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
63	3.50	3.40	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
64	3.40	3.30	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
65	3.30	3.20	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
66	3.20	3.10	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
67	3.10	3.00	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
68	3.00	2.90	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
69	2.90	2.80	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
70	2.80	2.70	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
71	2.70	2.60	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
72	2.60	2.50	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
73	2.50	2.40	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
74	2.40	2.30	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
75	2.30	2.20	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
76	2.20	2.10	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
77	2.10	2.00	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
78	2.00	1.90	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
79	1.90	1.80	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
80	1.80	1.70	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
81	1.70	1.60	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
82	1.60	1.50	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		
83	1.50	1.40	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040		

84	1.40	1.30	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
85	1.30	1.20	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
86	1.20	1.10	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
87	1.10	1.00	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
88	1.00	0.90	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
89	0.90	0.80	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
90	0.80	0.70	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
91	0.70	0.60	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
92	0.60	0.50	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
93	0.50	0.40	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
94	0.40	0.30	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
95	0.30	0.20	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
96	0.20	0.10	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040
97	0.10	0.00	8.8000	0.040	2.50	87.0	21750.	8700.0	217.5	0.	0.000	0.080	0.040

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 1 Grassy Lake Calibration Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS #/100mL	CHL A	COLI	NCM
1	HDWTR	60.70000	33.10	0.00	0.00	0.00	6.70	23.50	0.00	23.50	0.00	1.60	0.10	0.04	0.00	100.00	0.00	0.00
26	WSTLD	-8.80000	33.69	0.00	0.00	0.00	6.58	23.60	0.00	23.60	0.00	1.71	0.09	0.00	0.00	96.29	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
1	28.30	28.20	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
2	28.20	28.10	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
3	28.10	28.00	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
4	28.00	27.90	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
5	27.90	27.80	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
6	27.80	27.70	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
7	27.70	27.60	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
8	27.60	27.50	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
9	27.50	27.40	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
10	27.40	27.30	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
11	27.30	27.20	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
12	27.20	27.10	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
13	27.10	27.00	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
14	27.00	26.90	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
15	26.90	26.80	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045

16	26.80	26.70	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
17	26.70	26.60	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
18	26.60	26.50	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
19	26.50	26.40	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
20	26.40	26.30	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
21	26.30	26.20	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
22	26.20	26.10	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
23	26.10	26.00	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
24	26.00	25.90	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
25	25.90	25.80	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.042	0.045
26	25.80	25.70	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.036	0.038
27	25.70	25.60	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.036	0.038
28	25.60	25.50	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.036	0.038
29	25.50	25.40	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.036	0.038
30	25.40	25.30	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.036	0.038
31	25.30	25.20	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.036	0.038
32	25.20	25.10	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.036	0.038
33	25.10	25.00	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.036	0.038
34	25.00	24.90	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.036	0.038
35	24.90	24.80	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.036	0.038

TOT		0.95	4747505.00	4700500.00	
AVG	0.0427		1.01 1343.00		1356.43
CUM		0.95			

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	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 *	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
1	28.200	7.17	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.55	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00	
2	28.100	7.17	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.56	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00	
3	28.000	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.56	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00	
4	27.900	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00	
5	27.800	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00	
6	27.700	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00	
7	27.600	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00	
8	27.500	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00	
9	27.400	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	
10	27.300	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	
11	27.200	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	
12	27.100	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.56	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00	
13	27.000	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00	
14	26.900	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00	
15	26.800	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00	
16	26.700	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00	
17	26.600	7.12	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00	
18	26.500	7.12	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00	

19	26.400	7.12	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
20	26.300	7.12	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
21	26.200	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
22	26.100	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
23	26.000	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
24	25.900	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
25	25.800	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
26	25.700	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
27	25.600	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
28	25.500	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
29	25.400	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
30	25.300	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
31	25.200	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
32	25.100	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
33	25.000	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
34	24.900	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.68	1.68	1.68	0.03	0.00	0.58	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
35	24.800	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.68	1.68	1.68	0.03	0.00	0.59	0.00	0.00	0.00	8.99	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.74	0.18	0.00	0.00	0.00	0.00	0.00	0.70			0.02	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
1	28.200	33.12	0.00	0.00	0.00	6.70	23.51	0.00	23.51	0.00	1.60	0.10	0.03	1.73	0.00	99.86	0.00	0.	0.00
2	28.100	33.15	0.00	0.00	0.00	6.70	23.51	0.00	23.51	0.00	1.61	0.10	0.02	1.73	0.00	99.71	0.00	0.	0.00
3	28.000	33.17	0.00	0.00	0.00	6.70	23.52	0.00	23.52	0.00	1.61	0.10	0.01	1.72	0.00	99.57	0.00	0.	0.00
4	27.900	33.19	0.00	0.00	0.00	6.70	23.53	0.00	23.53	0.00	1.62	0.10	0.00	1.72	0.00	99.43	0.00	0.	0.00
5	27.800	33.21	0.00	0.00	0.00	6.70	23.53	0.00	23.53	0.00	1.62	0.10	0.00	1.72	0.00	99.29	0.00	0.	0.00
6	27.700	33.24	0.00	0.00	0.00	6.69	23.54	0.00	23.54	0.00	1.63	0.10	0.00	1.72	0.00	99.14	0.00	0.	0.00
7	27.600	33.26	0.00	0.00	0.00	6.69	23.54	0.00	23.54	0.00	1.63	0.10	0.00	1.73	0.00	99.00	0.00	0.	0.00
8	27.500	33.28	0.00	0.00	0.00	6.69	23.55	0.00	23.55	0.00	1.63	0.10	0.00	1.73	0.00	98.86	0.00	0.	0.00
9	27.400	33.31	0.00	0.00	0.00	6.69	23.55	0.00	23.55	0.00	1.64	0.10	0.00	1.74	0.00	98.71	0.00	0.	0.00
10	27.300	33.33	0.00	0.00	0.00	6.68	23.56	0.00	23.56	0.00	1.64	0.10	0.00	1.74	0.00	98.57	0.00	0.	0.00
11	27.200	33.35	0.00	0.00	0.00	6.68	23.56	0.00	23.56	0.00	1.65	0.10	0.00	1.74	0.00	98.43	0.00	0.	0.00
12	27.100	33.37	0.00	0.00	0.00	6.67	23.57	0.00	23.57	0.00	1.65	0.10	0.00	1.75	0.00	98.29	0.00	0.	0.00
13	27.000	33.40	0.00	0.00	0.00	6.67	23.57	0.00	23.57	0.00	1.66	0.10	0.00	1.75	0.00	98.14	0.00	0.	0.00
14	26.900	33.42	0.00	0.00	0.00	6.67	23.58	0.00	23.58	0.00	1.66	0.10	0.00	1.76	0.00	98.00	0.00	0.	0.00
15	26.800	33.44	0.00	0.00	0.00	6.66	23.58	0.00	23.58	0.00	1.67	0.10	0.00	1.76	0.00	97.86	0.00	0.	0.00
16	26.700	33.47	0.00	0.00	0.00	6.65	23.58	0.00	23.58	0.00	1.67	0.10	0.00	1.76	0.00	97.71	0.00	0.	0.00
17	26.600	33.49	0.00	0.00	0.00	6.65	23.59	0.00	23.59	0.00	1.67	0.09	0.00	1.77	0.00	97.57	0.00	0.	0.00
18	26.500	33.51	0.00	0.00	0.00	6.64	23.59	0.00	23.59	0.00	1.68	0.09	0.00	1.77	0.00	97.43	0.00	0.	0.00
19	26.400	33.53	0.00	0.00	0.00	6.64	23.59	0.00	23.59	0.00	1.68	0.09	0.00	1.78	0.00	97.29	0.00	0.	0.00
20	26.300	33.56	0.00	0.00	0.00	6.63	23.59	0.00	23.59	0.00	1.69	0.09	0.00	1.78	0.00	97.14	0.00	0.	0.00
21	26.200	33.58	0.00	0.00	0.00	6.62	23.59	0.00	23.59	0.00	1.69	0.09	0.00	1.78	0.00	97.00	0.00	0.	0.00
22	26.100	33.60	0.00	0.00	0.00	6.62	23.60	0.00	23.60	0.00	1.70	0.09	0.00	1.79	0.00	96.86	0.00	0.	0.00

23	26.000	33.63	0.00	0.00	0.00	6.61	23.60	0.00	23.60	0.00	1.70	0.09	0.00	1.79	0.00	96.71	0.00	0.	0.00
24	25.900	33.65	0.00	0.00	0.00	6.60	23.60	0.00	23.60	0.00	1.70	0.09	0.00	1.80	0.00	96.57	0.00	0.	0.00
25	25.800	33.67	0.00	0.00	0.00	6.59	23.60	0.00	23.60	0.00	1.71	0.09	0.00	1.80	0.00	96.43	0.00	0.	0.00
26	25.700	33.69	0.00	0.00	0.00	6.58	23.60	0.00	23.60	0.00	1.71	0.09	0.00	1.81	0.00	96.29	0.00	0.	0.00
27	25.600	33.72	0.00	0.00	0.00	6.57	23.60	0.00	23.60	0.00	1.72	0.09	0.00	1.81	0.00	96.14	0.00	0.	0.00
28	25.500	33.74	0.00	0.00	0.00	6.56	23.60	0.00	23.60	0.00	1.72	0.09	0.00	1.81	0.00	96.00	0.00	0.	0.00
29	25.400	33.76	0.00	0.00	0.00	6.55	23.60	0.00	23.60	0.00	1.73	0.09	0.00	1.82	0.00	95.86	0.00	0.	0.00
30	25.300	33.79	0.00	0.00	0.00	6.54	23.60	0.00	23.60	0.00	1.73	0.09	0.00	1.82	0.00	95.71	0.00	0.	0.00
31	25.200	33.81	0.00	0.00	0.00	6.53	23.60	0.00	23.60	0.00	1.74	0.09	0.00	1.83	0.00	95.57	0.00	0.	0.00
32	25.100	33.83	0.00	0.00	0.00	6.52	23.60	0.00	23.60	0.00	1.74	0.09	0.00	1.83	0.00	95.43	0.00	0.	0.00
33	25.000	33.85	0.00	0.00	0.00	6.51	23.60	0.00	23.60	0.00	1.75	0.09	0.00	1.84	0.00	95.29	0.00	0.	0.00
34	24.900	33.88	0.00	0.00	0.00	6.50	23.60	0.00	23.60	0.00	1.75	0.09	0.00	1.84	0.00	95.14	0.00	0.	0.00
35	24.800	33.90	0.00	0.00	0.00	6.49	23.60	0.00	23.60	0.00	1.76	0.09	0.00	1.85	0.00	95.00	0.00	0.	0.00

FINAL REPORT Grassy Lake — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 2 Fourmile Bayou 1 — Calibration Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
36	UPR RCH	51.90000	33.90	0.00	0.00	0.00	6.49	23.60	0.00	23.60	0.00	1.76	0.09	0.00	0.00	95.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
36	24.80	24.70	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
37	24.70	24.60	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
38	24.60	24.50	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
39	24.50	24.40	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
40	24.40	24.30	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
41	24.30	24.20	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
42	24.20	24.10	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
43	24.10	24.00	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
44	24.00	23.90	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
45	23.90	23.80	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
46	23.80	23.70	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
47	23.70	23.60	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
48	23.60	23.50	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
49	23.50	23.40	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
50	23.40	23.30	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
51	23.30	23.20	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
52	23.20	23.10	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093

53	23.10	23.00	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
54	23.00	22.90	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
55	22.90	22.80	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.341	0.093
TOT						0.25		1121360.00	214000.00						
AVG					0.0926		5.24	107.00			560.68				
CUM						1.20									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	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 *	PO4 PROD	ALG PROD	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da
36	24.700	7.08	0.17	0.40	0.00	0.00	0.00	0.00	0.00	7.18	7.18	7.18	0.03	0.00	0.58	0.00	0.00	0.00	8.67	0.00	0.00	0.00	0.00
37	24.600	7.09	0.17	0.40	0.00	0.00	0.00	0.00	0.00	7.15	7.15	7.15	0.03	0.00	0.58	0.00	0.00	0.00	8.34	0.00	0.00	0.00	0.00
38	24.500	7.09	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.13	7.13	7.13	0.03	0.00	0.58	0.00	0.00	0.00	8.02	0.00	0.00	0.00	0.00
39	24.400	7.10	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.11	7.11	7.11	0.03	0.00	0.57	0.00	0.00	0.00	7.69	0.00	0.00	0.00	0.00
40	24.300	7.11	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.09	7.09	7.09	0.03	0.00	0.57	0.00	0.00	0.00	7.37	0.00	0.00	0.00	0.00
41	24.200	7.11	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.06	7.06	7.06	0.03	0.00	0.57	0.00	0.00	0.00	7.05	0.00	0.00	0.00	0.00
42	24.100	7.12	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.04	7.04	7.04	0.03	0.00	0.56	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
43	24.000	7.12	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.02	7.02	7.02	0.03	0.00	0.56	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
44	23.900	7.13	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.00	7.00	7.00	0.03	0.00	0.56	0.00	0.00	0.00	6.10	0.00	0.00	0.00	0.00
45	23.800	7.14	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.98	6.98	6.98	0.03	0.00	0.56	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00
46	23.700	7.14	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.95	6.95	6.95	0.03	0.00	0.55	0.00	0.00	0.00	5.47	0.00	0.00	0.00	0.00
47	23.600	7.15	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.93	6.93	6.93	0.03	0.00	0.55	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
48	23.500	7.15	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.91	6.91	6.91	0.03	0.00	0.54	0.00	0.00	0.00	4.85	0.00	0.00	0.00	0.00
49	23.400	7.16	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.89	6.89	6.89	0.03	0.00	0.54	0.00	0.00	0.00	4.54	0.00	0.00	0.00	0.00
50	23.300	7.16	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.87	6.87	6.87	0.03	0.00	0.54	0.00	0.00	0.00	4.23	0.00	0.00	0.00	0.00
51	23.200	7.17	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.85	6.85	6.85	0.03	0.00	0.53	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00
52	23.100	7.18	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.82	6.82	6.82	0.03	0.00	0.53	0.00	0.00	0.00	3.62	0.00	0.00	0.00	0.00
53	23.000	7.18	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.80	6.80	6.80	0.03	0.00	0.53	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
54	22.900	7.19	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.78	6.78	6.78	0.03	0.00	0.52	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
55	22.800	7.20	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	6.76	0.03	0.00	0.52	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.13	0.21	0.00	0.00	0.00	0.00	0.00	3.00		0.02	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO #/100mL	COLI	NCM
36	24.700	33.85	0.00	0.00	0.00	6.46	23.62	0.00	23.62	0.00	1.77	0.09	0.00	1.86	0.00	91.75	0.00	0.	0.00
37	24.600	33.80	0.00	0.00	0.00	6.43	23.63	0.00	23.63	0.00	1.77	0.09	0.00	1.86	0.00	88.50	0.00	0.	0.00
38	24.500	33.75	0.00	0.00	0.00	6.39	23.65	0.00	23.65	0.00	1.78	0.09	0.00	1.87	0.00	85.25	0.00	0.	0.00
39	24.400	33.70	0.00	0.00	0.00	6.35	23.67	0.00	23.67	0.00	1.79	0.09	0.00	1.88	0.00	82.00	0.00	0.	0.00

40	24.300	33.65	0.00	0.00	0.00	6.31	23.69	0.00	23.69	0.00	1.80	0.09	0.00	1.89	0.00	78.75	0.00	0.	0.00
41	24.200	33.60	0.00	0.00	0.00	6.26	23.70	0.00	23.70	0.00	1.81	0.09	0.00	1.90	0.00	75.50	0.00	0.	0.00
42	24.100	33.55	0.00	0.00	0.00	6.22	23.72	0.00	23.72	0.00	1.82	0.09	0.00	1.91	0.00	72.25	0.00	0.	0.00
43	24.000	33.50	0.00	0.00	0.00	6.16	23.74	0.00	23.74	0.00	1.82	0.09	0.00	1.91	0.00	69.00	0.00	0.	0.00
44	23.900	33.45	0.00	0.00	0.00	6.10	23.76	0.00	23.76	0.00	1.83	0.09	0.00	1.92	0.00	65.75	0.00	0.	0.00
45	23.800	33.40	0.00	0.00	0.00	6.04	23.78	0.00	23.78	0.00	1.84	0.09	0.00	1.93	0.00	62.50	0.00	0.	0.00
46	23.700	33.35	0.00	0.00	0.00	5.98	23.79	0.00	23.79	0.00	1.85	0.09	0.00	1.94	0.00	59.25	0.00	0.	0.00
47	23.600	33.30	0.00	0.00	0.00	5.91	23.81	0.00	23.81	0.00	1.86	0.09	0.00	1.95	0.00	56.00	0.00	0.	0.00
48	23.500	33.25	0.00	0.00	0.00	5.84	23.83	0.00	23.83	0.00	1.87	0.09	0.00	1.96	0.00	52.75	0.00	0.	0.00
49	23.400	33.20	0.00	0.00	0.00	5.77	23.85	0.00	23.85	0.00	1.87	0.09	0.00	1.96	0.00	49.50	0.00	0.	0.00
50	23.300	33.15	0.00	0.00	0.00	5.69	23.87	0.00	23.87	0.00	1.88	0.09	0.00	1.97	0.00	46.25	0.00	0.	0.00
51	23.200	33.10	0.00	0.00	0.00	5.61	23.89	0.00	23.89	0.00	1.89	0.09	0.00	1.98	0.00	43.00	0.00	0.	0.00
52	23.100	33.05	0.00	0.00	0.00	5.52	23.91	0.00	23.91	0.00	1.90	0.09	0.00	1.99	0.00	39.75	0.00	0.	0.00
53	23.000	33.00	0.00	0.00	0.00	5.44	23.93	0.00	23.93	0.00	1.91	0.09	0.00	2.00	0.00	36.50	0.00	0.	0.00
54	22.900	32.95	0.00	0.00	0.00	5.34	23.95	0.00	23.95	0.00	1.92	0.09	0.00	2.01	0.00	33.25	0.00	0.	0.00
55	22.800	32.90	0.00	0.00	0.00	5.23	23.99	0.00	23.99	0.00	1.93	0.09	0.00	2.02	0.00	30.00	0.00	0.	0.00

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 4 Fourmile Bayou 2 Calibration Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
98	UPR RCH	51.90000	32.90	0.00	0.00	0.00	5.23	23.99	0.00	23.99	0.00	1.93	0.09	0.00	0.00	30.00	0.00	0.00
98	TRIB	8.80000	32.90	0.00	0.00	0.00	1.06	27.55	0.00	27.55	0.00	2.66	0.12	0.00	0.00	30.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
98	22.80	22.70	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
99	22.70	22.60	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
100	22.60	22.50	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
101	22.50	22.40	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
102	22.40	22.30	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
103	22.30	22.20	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
104	22.20	22.10	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
105	22.10	22.00	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
106	22.00	21.90	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
107	21.90	21.80	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
108	21.80	21.70	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
109	21.70	21.60	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
110	21.60	21.50	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159

111	21.50	21.40	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
112	21.40	21.30	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
113	21.30	21.20	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
114	21.20	21.10	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
115	21.10	21.00	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
116	21.00	20.90	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
117	20.90	20.80	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
118	20.80	20.70	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
119	20.70	20.60	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
120	20.60	20.50	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
121	20.50	20.40	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
122	20.40	20.30	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
123	20.30	20.20	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
124	20.20	20.10	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
125	20.10	20.00	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
126	20.00	19.90	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
127	19.90	19.80	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
128	19.80	19.70	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
129	19.70	19.60	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
130	19.60	19.50	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159
131	19.50	19.40	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.505	0.159

TOT			0.25		1298562.00	295800.00
AVG			0.1589	4.39	87.00	381.93
CUM			1.45			

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

ELEM NO.	ENDING DIST 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 *	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
98	22.700	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	6.76	0.03	0.00	0.50	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
99	22.600	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	6.76	0.03	0.00	0.50	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
100	22.500	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	6.76	0.03	0.00	0.50	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
101	22.400	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.50	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00
102	22.300	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	3.64	0.00	0.00	0.00	0.00
103	22.200	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
104	22.100	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.00
105	22.000	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00
106	21.900	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.38	0.00	0.00	0.00	0.00
107	21.800	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00
108	21.700	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.75	0.00	0.00	0.00	0.00
109	21.600	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00
110	21.500	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
111	21.400	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.31	0.00	0.00	0.00	0.00
112	21.300	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
113	21.200	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.68	0.00	0.00	0.00	0.00
114	21.100	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.86	0.00	0.00	0.00	0.00

115	21.000	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
116	20.900	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.47	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00
117	20.800	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.42	0.00	0.00	0.00	0.00
118	20.700	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
119	20.600	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
120	20.500	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.97	0.00	0.00	0.00	0.00
121	20.400	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.16	0.00	0.00	0.00	0.00
122	20.300	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.34	0.00	0.00	0.00	0.00
123	20.200	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00
124	20.100	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.71	0.00	0.00	0.00	0.00
125	20.000	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.47	0.00	0.00	0.00	7.90	0.00	0.00	0.00	0.00
126	19.900	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.47	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00
127	19.800	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00
128	19.700	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.45	0.00	0.00	0.00	0.00
129	19.600	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.63	0.00	0.00	0.00	0.00
130	19.500	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.82	0.00	0.00	0.00	0.00
131	19.400	7.21	0.21	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.17 0.21 0.00 0.00 0.00 0.00 0.00 3.00 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
98	22.700	32.90	0.00	0.00	0.00	4.57	24.51	0.00	24.51	0.00	2.04	0.09	0.00	2.14	0.00	32.06	0.00	0.	0.00
99	22.600	32.89	0.00	0.00	0.00	4.52	24.51	0.00	24.51	0.00	2.05	0.09	0.00	2.14	0.00	34.12	0.00	0.	0.00
100	22.500	32.89	0.00	0.00	0.00	4.47	24.52	0.00	24.52	0.00	2.06	0.09	0.00	2.15	0.00	36.18	0.00	0.	0.00
101	22.400	32.89	0.00	0.00	0.00	4.42	24.52	0.00	24.52	0.00	2.07	0.09	0.00	2.16	0.00	38.24	0.00	0.	0.00
102	22.300	32.89	0.00	0.00	0.00	4.37	24.53	0.00	24.53	0.00	2.07	0.09	0.00	2.17	0.00	40.29	0.00	0.	0.00
103	22.200	32.88	0.00	0.00	0.00	4.32	24.53	0.00	24.53	0.00	2.08	0.09	0.00	2.18	0.00	42.35	0.00	0.	0.00
104	22.100	32.88	0.00	0.00	0.00	4.27	24.54	0.00	24.54	0.00	2.09	0.10	0.00	2.19	0.00	44.41	0.00	0.	0.00
105	22.000	32.88	0.00	0.00	0.00	4.23	24.54	0.00	24.54	0.00	2.10	0.10	0.00	2.19	0.00	46.47	0.00	0.	0.00
106	21.900	32.87	0.00	0.00	0.00	4.18	24.55	0.00	24.55	0.00	2.11	0.10	0.00	2.20	0.00	48.53	0.00	0.	0.00
107	21.800	32.87	0.00	0.00	0.00	4.14	24.55	0.00	24.55	0.00	2.11	0.10	0.00	2.21	0.00	50.59	0.00	0.	0.00
108	21.700	32.87	0.00	0.00	0.00	4.10	24.56	0.00	24.56	0.00	2.12	0.10	0.00	2.22	0.00	52.65	0.00	0.	0.00
109	21.600	32.86	0.00	0.00	0.00	4.06	24.56	0.00	24.56	0.00	2.13	0.10	0.00	2.23	0.00	54.71	0.00	0.	0.00
110	21.500	32.86	0.00	0.00	0.00	4.02	24.57	0.00	24.57	0.00	2.14	0.10	0.00	2.23	0.00	56.76	0.00	0.	0.00
111	21.400	32.86	0.00	0.00	0.00	3.99	24.57	0.00	24.57	0.00	2.15	0.10	0.00	2.24	0.00	58.82	0.00	0.	0.00
112	21.300	32.86	0.00	0.00	0.00	3.95	24.58	0.00	24.58	0.00	2.15	0.10	0.00	2.25	0.00	60.88	0.00	0.	0.00
113	21.200	32.85	0.00	0.00	0.00	3.92	24.58	0.00	24.58	0.00	2.16	0.10	0.00	2.26	0.00	62.94	0.00	0.	0.00
114	21.100	32.85	0.00	0.00	0.00	3.88	24.59	0.00	24.59	0.00	2.17	0.10	0.00	2.27	0.00	65.00	0.00	0.	0.00
115	21.000	32.85	0.00	0.00	0.00	3.85	24.59	0.00	24.59	0.00	2.18	0.10	0.00	2.27	0.00	67.06	0.00	0.	0.00
116	20.900	32.84	0.00	0.00	0.00	3.82	24.60	0.00	24.60	0.00	2.19	0.10	0.00	2.28	0.00	69.12	0.00	0.	0.00
117	20.800	32.84	0.00	0.00	0.00	3.80	24.60	0.00	24.60	0.00	2.19	0.10	0.00	2.29	0.00	71.18	0.00	0.	0.00
118	20.700	32.84	0.00	0.00	0.00	3.77	24.61	0.00	24.61	0.00	2.20	0.10	0.00	2.30	0.00	73.24	0.00	0.	0.00
119	20.600	32.84	0.00	0.00	0.00	3.74	24.61	0.00	24.61	0.00	2.21	0.10	0.00	2.31	0.00	75.29	0.00	0.	0.00

120	20.500	32.83	0.00	0.00	0.00	3.72	24.62	0.00	24.62	0.00	2.22	0.10	0.00	2.31	0.00	77.35	0.00	0.	0.00
121	20.400	32.83	0.00	0.00	0.00	3.70	24.62	0.00	24.62	0.00	2.23	0.10	0.00	2.32	0.00	79.41	0.00	0.	0.00
122	20.300	32.83	0.00	0.00	0.00	3.67	24.63	0.00	24.63	0.00	2.23	0.10	0.00	2.33	0.00	81.47	0.00	0.	0.00
123	20.200	32.82	0.00	0.00	0.00	3.65	24.63	0.00	24.63	0.00	2.24	0.10	0.00	2.34	0.00	83.53	0.00	0.	0.00
124	20.100	32.82	0.00	0.00	0.00	3.64	24.64	0.00	24.64	0.00	2.25	0.10	0.00	2.35	0.00	85.59	0.00	0.	0.00
125	20.000	32.82	0.00	0.00	0.00	3.62	24.64	0.00	24.64	0.00	2.26	0.10	0.00	2.36	0.00	87.65	0.00	0.	0.00
126	19.900	32.81	0.00	0.00	0.00	3.60	24.65	0.00	24.65	0.00	2.27	0.10	0.00	2.36	0.00	89.71	0.00	0.	0.00
127	19.800	32.81	0.00	0.00	0.00	3.59	24.65	0.00	24.65	0.00	2.27	0.10	0.00	2.37	0.00	91.76	0.00	0.	0.00
128	19.700	32.81	0.00	0.00	0.00	3.57	24.66	0.00	24.66	0.00	2.28	0.10	0.00	2.38	0.00	93.82	0.00	0.	0.00
129	19.600	32.81	0.00	0.00	0.00	3.56	24.66	0.00	24.66	0.00	2.29	0.10	0.00	2.39	0.00	95.88	0.00	0.	0.00
130	19.500	32.80	0.00	0.00	0.00	3.55	24.67	0.00	24.67	0.00	2.30	0.10	0.00	2.40	0.00	97.94	0.00	0.	0.00
131	19.400	32.80	0.00	0.00	0.00	3.58	24.62	0.00	24.62	0.00	2.31	0.10	0.00	2.40	0.00	100.00	0.00	0.	0.00

FINAL REPORT Grassy Lake — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 5 Lake Verret 1 — Calibration Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3 #/100mL	NO3+2	PHOS	CHL A	COLI	NCM
132	UPR RCH	60.70000	32.80	0.00	0.00	0.00	3.58	24.62	0.00	24.62	0.00	2.31	0.10	0.00	0.00	100.00	0.00	0.00
132	WSTLD	30.10000	33.10	0.00	0.00	0.00	7.60	16.80	0.00	16.80	0.00	2.40	0.10	0.20	0.00	0.00	0.00	0.00
140	WSTLD	0.00157	0.00	0.00	0.00	0.00	5.00	30.00	0.00	30.00	0.00	2.00	1.50	2.00	0.00	0.00	0.00	0.00
149	WSTLD	0.00044	0.00	0.00	0.00	0.00	5.00	30.00	0.00	30.00	0.00	2.00	1.50	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
132	19.40	19.30	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
133	19.30	19.20	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
134	19.20	19.10	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
135	19.10	19.00	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
136	19.00	18.90	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
137	18.90	18.80	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
138	18.80	18.70	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
139	18.70	18.60	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
140	18.60	18.50	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
141	18.50	18.40	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
142	18.40	18.30	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
143	18.30	18.20	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
144	18.20	18.10	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
145	18.10	18.00	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
146	18.00	17.90	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036

147	17.90	17.80	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
148	17.80	17.70	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
149	17.70	17.60	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
150	17.60	17.50	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
151	17.50	17.40	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
152	17.40	17.30	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
153	17.30	17.20	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
154	17.20	17.10	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
155	17.10	17.00	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
156	17.00	16.90	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
157	16.90	16.80	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
158	16.80	16.70	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
159	16.70	16.60	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
160	16.60	16.50	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
161	16.50	16.40	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
162	16.40	16.30	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
163	16.30	16.20	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
164	16.20	16.10	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
165	16.10	16.00	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
166	16.00	15.90	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
167	15.90	15.80	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
168	15.80	15.70	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
169	15.70	15.60	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
170	15.60	15.50	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
171	15.50	15.40	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
172	15.40	15.30	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
173	15.30	15.20	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
174	15.20	15.10	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
175	15.10	15.00	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
176	15.00	14.90	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
177	14.90	14.80	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
178	14.80	14.70	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
179	14.70	14.60	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036
180	14.60	14.50	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.042	0.036

TOT				1.58		12422872.00	9270800.00
AVG				0.0358	1.34	1892.00	2535.28
CUM				3.03			

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORGN SETT 1/da	ORGN DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM DECAY	NCM SETT
132	19.300	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00	
133	19.200	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00	
134	19.100	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00	
135	19.000	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00	

136	18.900	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
137	18.800	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
138	18.700	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
139	18.600	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
140	18.500	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
141	18.400	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
142	18.300	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
143	18.200	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
144	18.100	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
145	18.000	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
146	17.900	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
147	17.800	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00
148	17.700	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.13	0.00	0.00	0.00	0.00
149	17.600	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.14	0.00	0.00	0.00	0.00
150	17.500	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.14	0.00	0.00	0.00	0.00
151	17.400	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.15	0.00	0.00	0.00	0.00
152	17.300	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.16	0.00	0.00	0.00	0.00
153	17.200	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.17	0.00	0.00	0.00	0.00
154	17.100	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.17	0.00	0.00	0.00	0.00
155	17.000	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.18	0.00	0.00	0.00	0.00
156	16.900	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
157	16.800	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.50	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
158	16.700	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.50	0.00	0.00	0.00	9.20	0.00	0.00	0.00	0.00
159	16.600	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.21	0.00	0.00	0.00	0.00
160	16.500	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
161	16.400	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
162	16.300	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.23	0.00	0.00	0.00	0.00
163	16.200	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00
164	16.100	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.00
165	16.000	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.00
166	15.900	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.26	0.00	0.00	0.00	0.00
167	15.800	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.27	0.00	0.00	0.00	0.00
168	15.700	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
169	15.600	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
170	15.500	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.29	0.00	0.00	0.00	0.00
171	15.400	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.30	0.00	0.00	0.00	0.00
172	15.300	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.31	0.00	0.00	0.00	0.00
173	15.200	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.31	0.00	0.00	0.00	0.00
174	15.100	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00
175	15.000	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.33	0.00	0.00	0.00	0.00
176	14.900	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.00
177	14.800	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.00
178	14.700	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.35	0.00	0.00	0.00	0.00
179	14.600	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00
180	14.500	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.56	0.16	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS #/100mL	CHL A	MACRO	COLI	NCM
132	19.300	32.80	0.00	0.00	0.00	4.93	22.43	0.00	22.43	0.00	2.34	0.10	0.00	2.44	0.00	100.10	0.00	0.	0.00
133	19.200	32.79	0.00	0.00	0.00	4.98	22.79	0.00	22.79	0.00	2.35	0.10	0.00	2.45	0.00	100.20	0.00	0.	0.00
134	19.100	32.79	0.00	0.00	0.00	5.02	23.15	0.00	23.15	0.00	2.35	0.10	0.00	2.45	0.00	100.31	0.00	0.	0.00
135	19.000	32.78	0.00	0.00	0.00	5.05	23.50	0.00	23.50	0.00	2.36	0.10	0.00	2.46	0.00	100.41	0.00	0.	0.00
136	18.900	32.78	0.00	0.00	0.00	5.08	23.85	0.00	23.85	0.00	2.37	0.10	0.00	2.47	0.00	100.51	0.00	0.	0.00
137	18.800	32.78	0.00	0.00	0.00	5.11	24.20	0.00	24.20	0.00	2.37	0.10	0.00	2.47	0.00	100.61	0.00	0.	0.00
138	18.700	32.77	0.00	0.00	0.00	5.13	24.54	0.00	24.54	0.00	2.38	0.10	0.00	2.48	0.00	100.71	0.00	0.	0.00
139	18.600	32.77	0.00	0.00	0.00	5.15	24.88	0.00	24.88	0.00	2.38	0.10	0.00	2.48	0.00	100.82	0.00	0.	0.00
140	18.500	32.76	0.00	0.00	0.00	5.17	25.22	0.00	25.22	0.00	2.39	0.10	0.00	2.49	0.00	100.92	0.00	0.	0.00
141	18.400	32.76	0.00	0.00	0.00	5.18	25.56	0.00	25.56	0.00	2.40	0.10	0.00	2.50	0.00	101.02	0.00	0.	0.00
142	18.300	32.76	0.00	0.00	0.00	5.19	25.89	0.00	25.89	0.00	2.40	0.10	0.00	2.50	0.00	101.12	0.00	0.	0.00
143	18.200	32.75	0.00	0.00	0.00	5.20	26.22	0.00	26.22	0.00	2.41	0.10	0.00	2.51	0.00	101.22	0.00	0.	0.00
144	18.100	32.75	0.00	0.00	0.00	5.21	26.54	0.00	26.54	0.00	2.41	0.10	0.00	2.52	0.00	101.33	0.00	0.	0.00
145	18.000	32.74	0.00	0.00	0.00	5.21	26.87	0.00	26.87	0.00	2.42	0.10	0.00	2.52	0.00	101.43	0.00	0.	0.00
146	17.900	32.74	0.00	0.00	0.00	5.21	27.19	0.00	27.19	0.00	2.42	0.10	0.00	2.53	0.00	101.53	0.00	0.	0.00
147	17.800	32.73	0.00	0.00	0.00	5.21	27.50	0.00	27.50	0.00	2.43	0.10	0.00	2.53	0.00	101.63	0.00	0.	0.00
148	17.700	32.73	0.00	0.00	0.00	5.20	27.82	0.00	27.82	0.00	2.44	0.10	0.00	2.54	0.00	101.73	0.00	0.	0.00
149	17.600	32.73	0.00	0.00	0.00	5.19	28.13	0.00	28.13	0.00	2.44	0.10	0.00	2.55	0.00	101.84	0.00	0.	0.00
150	17.500	32.72	0.00	0.00	0.00	5.18	28.44	0.00	28.44	0.00	2.45	0.10	0.00	2.55	0.00	101.94	0.00	0.	0.00
151	17.400	32.72	0.00	0.00	0.00	5.17	28.74	0.00	28.74	0.00	2.45	0.10	0.00	2.56	0.00	102.04	0.00	0.	0.00
152	17.300	32.71	0.00	0.00	0.00	5.16	29.05	0.00	29.05	0.00	2.46	0.10	0.00	2.56	0.00	102.14	0.00	0.	0.00
153	17.200	32.71	0.00	0.00	0.00	5.14	29.35	0.00	29.35	0.00	2.46	0.11	0.00	2.57	0.00	102.24	0.00	0.	0.00
154	17.100	32.71	0.00	0.00	0.00	5.12	29.64	0.00	29.64	0.00	2.47	0.11	0.00	2.58	0.00	102.35	0.00	0.	0.00
155	17.000	32.70	0.00	0.00	0.00	5.10	29.94	0.00	29.94	0.00	2.48	0.11	0.00	2.58	0.00	102.45	0.00	0.	0.00
156	16.900	32.70	0.00	0.00	0.00	5.08	30.23	0.00	30.23	0.00	2.48	0.11	0.00	2.59	0.00	102.55	0.00	0.	0.00
157	16.800	32.69	0.00	0.00	0.00	5.05	30.52	0.00	30.52	0.00	2.49	0.11	0.00	2.59	0.00	102.65	0.00	0.	0.00
158	16.700	32.69	0.00	0.00	0.00	5.03	30.81	0.00	30.81	0.00	2.49	0.11	0.00	2.60	0.00	102.76	0.00	0.	0.00
159	16.600	32.69	0.00	0.00	0.00	5.00	31.09	0.00	31.09	0.00	2.50	0.11	0.00	2.61	0.00	102.86	0.00	0.	0.00
160	16.500	32.68	0.00	0.00	0.00	4.97	31.37	0.00	31.37	0.00	2.51	0.11	0.00	2.61	0.00	102.96	0.00	0.	0.00
161	16.400	32.68	0.00	0.00	0.00	4.94	31.65	0.00	31.65	0.00	2.51	0.11	0.00	2.62	0.00	103.06	0.00	0.	0.00
162	16.300	32.67	0.00	0.00	0.00	4.91	31.93	0.00	31.93	0.00	2.52	0.11	0.00	2.62	0.00	103.16	0.00	0.	0.00
163	16.200	32.67	0.00	0.00	0.00	4.87	32.20	0.00	32.20	0.00	2.52	0.11	0.00	2.63	0.00	103.27	0.00	0.	0.00
164	16.100	32.67	0.00	0.00	0.00	4.84	32.48	0.00	32.48	0.00	2.53	0.11	0.00	2.64	0.00	103.37	0.00	0.	0.00
165	16.000	32.66	0.00	0.00	0.00	4.80	32.74	0.00	32.74	0.00	2.53	0.11	0.00	2.64	0.00	103.47	0.00	0.	0.00
166	15.900	32.66	0.00	0.00	0.00	4.76	33.01	0.00	33.01	0.00	2.54	0.11	0.00	2.65	0.00	103.57	0.00	0.	0.00
167	15.800	32.65	0.00	0.00	0.00	4.73	33.28	0.00	33.28	0.00	2.55	0.11	0.00	2.66	0.00	103.67	0.00	0.	0.00
168	15.700	32.65	0.00	0.00	0.00	4.69	33.54	0.00	33.54	0.00	2.55	0.11	0.00	2.66	0.00	103.78	0.00	0.	0.00
169	15.600	32.64	0.00	0.00	0.00	4.64	33.80	0.00	33.80	0.00	2.56	0.11	0.00	2.67	0.00	103.88	0.00	0.	0.00
170	15.500	32.64	0.00	0.00	0.00	4.60	34.06	0.00	34.06	0.00	2.56	0.11	0.00	2.67	0.00	103.98	0.00	0.	0.00
171	15.400	32.64	0.00	0.00	0.00	4.56	34.31	0.00	34.31	0.00	2.57	0.11	0.00	2.68	0.00	104.08	0.00	0.	0.00
172	15.300	32.63	0.00	0.00	0.00	4.51	34.56	0.00	34.56	0.00	2.57	0.11	0.00	2.69	0.00	104.18	0.00	0.	0.00
173	15.200	32.63	0.00	0.00	0.00	4.47	34.82	0.00	34.82	0.00	2.58	0.11	0.00	2.69	0.00	104.29	0.00	0.	0.00
174	15.100	32.62	0.00	0.00	0.00	4.42	35.06	0.00	35.06	0.00	2.58	0.11	0.00	2.70	0.00	104.39	0.00	0.	0.00
175	15.000	32.62	0.00	0.00	0.00	4.37	35.31	0.00	35.31	0.00	2.59	0.11	0.00	2.70	0.00	104.49	0.00	0.	0.00

176	14.900	32.62	0.00	0.00	0.00	4.33	35.55	0.00	35.55	0.00	2.60	0.11	0.00	2.71	0.00	104.59	0.00	0.	0.00
177	14.800	32.61	0.00	0.00	0.00	4.28	35.80	0.00	35.80	0.00	2.60	0.11	0.00	2.72	0.00	104.69	0.00	0.	0.00
178	14.700	32.61	0.00	0.00	0.00	4.23	36.04	0.00	36.04	0.00	2.61	0.11	0.00	2.72	0.00	104.80	0.00	0.	0.00
179	14.600	32.60	0.00	0.00	0.00	4.18	36.27	0.00	36.27	0.00	2.61	0.11	0.00	2.73	0.00	104.90	0.00	0.	0.00
180	14.500	32.60	0.00	0.00	0.00	4.12	36.50	0.00	36.50	0.00	2.62	0.11	0.00	2.73	0.00	105.00	0.00	0.	0.00

FINAL REPORT Grassy Lake — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 6 Lake Verret 2 — Calibration Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
181	UPR RCH	90.80202	32.60	0.00	0.00	0.00	4.12	36.50	0.00	36.50	0.00	2.62	0.11	0.00	0.00	105.00	0.00	0.00
208	WSTLD	0.00125	0.00	0.00	0.00	0.00	5.00	20.00	0.00	20.00	0.00	2.00	1.50	2.00	0.00	0.00	0.00	0.00
264	WSTLD	0.00922	0.00	0.00	0.00	0.00	5.00	11.80	0.00	11.80	0.00	2.00	5.72	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
181	14.50	14.40	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
182	14.40	14.30	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
183	14.30	14.20	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
184	14.20	14.10	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
185	14.10	14.00	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
186	14.00	13.90	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
187	13.90	13.80	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
188	13.80	13.70	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
189	13.70	13.60	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
190	13.60	13.50	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
191	13.50	13.40	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
192	13.40	13.30	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
193	13.30	13.20	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
194	13.20	13.10	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
195	13.10	13.00	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
196	13.00	12.90	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
197	12.90	12.80	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
198	12.80	12.70	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
199	12.70	12.60	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
200	12.60	12.50	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
201	12.50	12.40	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
202	12.40	12.30	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
203	12.30	12.20	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010

204	12.20	12.10	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
205	12.10	12.00	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
206	12.00	11.90	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
207	11.90	11.80	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
208	11.80	11.70	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
209	11.70	11.60	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
210	11.60	11.50	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
211	11.50	11.40	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
212	11.40	11.30	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
213	11.30	11.20	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
214	11.20	11.10	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
215	11.10	11.00	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
216	11.00	10.90	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
217	10.90	10.80	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
218	10.80	10.70	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
219	10.70	10.60	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
220	10.60	10.50	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
221	10.50	10.40	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
222	10.40	10.30	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
223	10.30	10.20	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
224	10.20	10.10	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
225	10.10	10.00	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
226	10.00	9.90	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
227	9.90	9.80	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
228	9.80	9.70	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
229	9.70	9.60	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
230	9.60	9.50	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
231	9.50	9.40	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
232	9.40	9.30	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
233	9.30	9.20	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
234	9.20	9.10	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
235	9.10	9.00	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
236	9.00	8.90	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
237	8.90	8.80	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
238	8.80	8.70	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
239	8.70	8.60	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
240	8.60	8.50	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
241	8.50	8.40	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
242	8.40	8.30	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
243	8.30	8.20	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
244	8.20	8.10	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
245	8.10	8.00	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
246	8.00	7.90	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
247	7.90	7.80	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
248	7.80	7.70	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
249	7.70	7.60	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
250	7.60	7.50	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
251	7.50	7.40	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
252	7.40	7.30	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
253	7.30	7.20	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010

254	7.20	7.10	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
255	7.10	7.00	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
256	7.00	6.90	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
257	6.90	6.80	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
258	6.80	6.70	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
259	6.70	6.60	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
260	6.60	6.50	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
261	6.50	6.40	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
262	6.40	6.30	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
263	6.30	6.20	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
264	6.20	6.10	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
265	6.10	6.00	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
266	6.00	5.90	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
267	5.90	5.80	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
268	5.80	5.70	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
269	5.70	5.60	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
270	5.60	5.50	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
271	5.50	5.40	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
272	5.40	5.30	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
273	5.30	5.20	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
274	5.20	5.10	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
275	5.10	5.00	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
276	5.00	4.90	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
277	4.90	4.80	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
278	4.80	4.70	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
279	4.70	4.60	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
280	4.60	4.50	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
281	4.50	4.40	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
282	4.40	4.30	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
283	4.30	4.20	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
284	4.20	4.10	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
285	4.10	4.00	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
286	4.00	3.90	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
287	3.90	3.80	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
288	3.80	3.70	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
289	3.70	3.60	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
290	3.60	3.50	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
291	3.50	3.40	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
292	3.40	3.30	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
293	3.30	3.20	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
294	3.20	3.10	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
295	3.10	3.00	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010
296	3.00	2.90	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.018	0.010

TOT			12.89	**********	47467200.00
AVG		0.0104	2.13	4092.00	8715.95
CUM			15.92		

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

ELEM NO.	ENDING DIST mg/L	SAT D.O. 1/da	REAER RATE 1/da	REAER DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 DECAY 1/da	BKGD SOD 1/da	BKGD SOD *	FULL SOD 1/da	CORR DECAY *	ORGN SETT **	ORGN SETT **	ORGN DECAY 1/da	NH3 SRCE 1/da	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM	NCM SETT
181	14.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.47	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00				
182	14.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.47	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00				
183	14.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00				
184	14.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00				
185	14.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.15	0.00	0.00	0.00	0.00				
186	13.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00				
187	13.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00				
188	13.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00				
189	13.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	8.98	0.00	0.00	0.00	0.00				
190	13.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.94	0.00	0.00	0.00	0.00				
191	13.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.90	0.00	0.00	0.00	0.00				
192	13.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.85	0.00	0.00	0.00	0.00				
193	13.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.81	0.00	0.00	0.00	0.00				
194	13.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.77	0.00	0.00	0.00	0.00				
195	13.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.73	0.00	0.00	0.00	0.00				
196	12.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.68	0.00	0.00	0.00	0.00				
197	12.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.64	0.00	0.00	0.00	0.00				
198	12.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.60	0.00	0.00	0.00	0.00				
199	12.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.55	0.00	0.00	0.00	0.00				
200	12.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.51	0.00	0.00	0.00	0.00				
201	12.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.47	0.00	0.00	0.00	0.00				
202	12.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.43	0.00	0.00	0.00	0.00				
203	12.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.38	0.00	0.00	0.00	0.00				
204	12.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.34	0.00	0.00	0.00	0.00				
205	12.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.30	0.00	0.00	0.00	0.00				
206	11.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00				
207	11.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.21	0.00	0.00	0.00	0.00				
208	11.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.17	0.00	0.00	0.00	0.00				
209	11.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.13	0.00	0.00	0.00	0.00				
210	11.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.09	0.00	0.00	0.00	0.00				
211	11.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.04	0.00	0.00	0.00	0.00				
212	11.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00				
213	11.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	7.96	0.00	0.00	0.00	0.00				
214	11.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00				
215	11.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.87	0.00	0.00	0.00	0.00				
216	10.900	7.23	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00				
217	10.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.79	0.00	0.00	0.00	0.00				
218	10.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.75	0.00	0.00	0.00	0.00				
219	10.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.70	0.00	0.00	0.00	0.00				
220	10.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.66	0.00	0.00	0.00	0.00				
221	10.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.62	0.00	0.00	0.00	0.00				
222	10.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.58	0.00	0.00	0.00	0.00				
223	10.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00				
224	10.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.49	0.00	0.00	0.00	0.00				
225	10.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00				

226	9.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.41	0.00	0.00	0.00	0.00
227	9.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.36	0.00	0.00	0.00	0.00
228	9.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.32	0.00	0.00	0.00	0.00
229	9.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.28	0.00	0.00	0.00	0.00
230	9.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.24	0.00	0.00	0.00	0.00
231	9.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.19	0.00	0.00	0.00	0.00
232	9.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.15	0.00	0.00	0.00	0.00
233	9.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.11	0.00	0.00	0.00	0.00
234	9.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.07	0.00	0.00	0.00	0.00
235	9.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.02	0.00	0.00	0.00	0.00
236	8.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.98	0.00	0.00	0.00	0.00
237	8.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.94	0.00	0.00	0.00	0.00
238	8.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00
239	8.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
240	8.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
241	8.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
242	8.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
243	8.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
244	8.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
245	8.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
246	7.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
247	7.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
248	7.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
249	7.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.00
250	7.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00
251	7.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.34	0.00	0.00	0.00	0.00
252	7.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00
253	7.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00
254	7.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.22	0.00	0.00	0.00	0.00
255	7.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00
256	6.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.13	0.00	0.00	0.00	0.00
257	6.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.09	0.00	0.00	0.00	0.00
258	6.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
259	6.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.01	0.00	0.00	0.00	0.00
260	6.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.96	0.00	0.00	0.00	0.00
261	6.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
262	6.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.88	0.00	0.00	0.00	0.00
263	6.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.84	0.00	0.00	0.00	0.00
264	6.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.79	0.00	0.00	0.00	0.00
265	6.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00
266	5.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.71	0.00	0.00	0.00	0.00
267	5.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.67	0.00	0.00	0.00	0.00
268	5.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.62	0.00	0.00	0.00	0.00
269	5.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.58	0.00	0.00	0.00	0.00
270	5.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.54	0.00	0.00	0.00	0.00
271	5.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00
272	5.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.45	0.00	0.00	0.00	0.00
273	5.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.41	0.00	0.00	0.00	0.00
274	5.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.37	0.00	0.00	0.00	0.00
275	5.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.33	0.00	0.00	0.00	0.00

276	4.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.28	0.00	0.00	0.00	0.00
277	4.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00
278	4.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.20	0.00	0.00	0.00	0.00
279	4.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
280	4.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
281	4.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00
282	4.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00
283	4.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00
284	4.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.95	0.00	0.00	0.00	0.00
285	4.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00
286	3.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.86	0.00	0.00	0.00	0.00
287	3.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.82	0.00	0.00	0.00	0.00
288	3.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.78	0.00	0.00	0.00	0.00
289	3.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00
290	3.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00
291	3.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.65	0.00	0.00	0.00	0.00
292	3.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.61	0.00	0.00	0.00	0.00
293	3.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00
294	3.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.50	0.00	0.00	0.00	4.52	0.00	0.00	0.00	0.00
295	3.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.50	0.00	0.00	0.00	4.48	0.00	0.00	0.00	0.00
296	2.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.35 0.16 0.00 0.00 0.00 0.00 0.00 1.50 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A #/100mL	MACRO	COLI	NCM
181	14.400	32.60	0.00	0.00	0.00	3.99	35.80	0.00	35.80	0.00	2.61	0.12	0.00	2.73	0.00	104.53	0.00	0.	0.00
182	14.300	32.60	0.00	0.00	0.00	3.87	35.13	0.00	35.13	0.00	2.60	0.12	0.00	2.72	0.00	104.05	0.00	0.	0.00
183	14.200	32.60	0.00	0.00	0.00	3.77	34.47	0.00	34.47	0.00	2.60	0.12	0.00	2.72	0.00	103.58	0.00	0.	0.00
184	14.100	32.60	0.00	0.00	0.00	3.70	33.84	0.00	33.84	0.00	2.59	0.12	0.00	2.71	0.00	103.10	0.00	0.	0.00
185	14.000	32.60	0.00	0.00	0.00	3.64	33.23	0.00	33.23	0.00	2.58	0.12	0.00	2.71	0.00	102.63	0.00	0.	0.00
186	13.900	32.59	0.00	0.00	0.00	3.59	32.63	0.00	32.63	0.00	2.58	0.12	0.00	2.70	0.00	102.16	0.00	0.	0.00
187	13.800	32.59	0.00	0.00	0.00	3.57	32.06	0.00	32.06	0.00	2.57	0.12	0.00	2.69	0.00	101.68	0.00	0.	0.00
188	13.700	32.59	0.00	0.00	0.00	3.55	31.50	0.00	31.50	0.00	2.56	0.12	0.00	2.69	0.00	101.21	0.00	0.	0.00
189	13.600	32.59	0.00	0.00	0.00	3.55	30.96	0.00	30.96	0.00	2.56	0.13	0.00	2.68	0.00	100.73	0.00	0.	0.00
190	13.500	32.59	0.00	0.00	0.00	3.56	30.43	0.00	30.43	0.00	2.55	0.13	0.00	2.68	0.00	100.26	0.00	0.	0.00
191	13.400	32.59	0.00	0.00	0.00	3.58	29.92	0.00	29.92	0.00	2.54	0.13	0.00	2.67	0.00	99.78	0.00	0.	0.00
192	13.300	32.59	0.00	0.00	0.00	3.60	29.43	0.00	29.43	0.00	2.54	0.13	0.00	2.66	0.00	99.31	0.00	0.	0.00
193	13.200	32.59	0.00	0.00	0.00	3.64	28.95	0.00	28.95	0.00	2.53	0.13	0.00	2.66	0.00	98.84	0.00	0.	0.00
194	13.100	32.59	0.00	0.00	0.00	3.69	28.49	0.00	28.49	0.00	2.52	0.13	0.00	2.65	0.00	98.36	0.00	0.	0.00
195	13.000	32.59	0.00	0.00	0.00	3.74	28.04	0.00	28.04	0.00	2.52	0.13	0.00	2.65	0.00	97.89	0.00	0.	0.00
196	12.900	32.59	0.00	0.00	0.00	3.79	27.60	0.00	27.60	0.00	2.51	0.13	0.00	2.64	0.00	97.41	0.00	0.	0.00
197	12.800	32.59	0.00	0.00	0.00	3.86	27.18	0.00	27.18	0.00	2.50	0.13	0.00	2.63	0.00	96.94	0.00	0.	0.00
198	12.700	32.58	0.00	0.00	0.00	3.92	26.77	0.00	26.77	0.00	2.50	0.13	0.00	2.63	0.00	96.47	0.00	0.	0.00

199	12.600	32.58	0.00	0.00	0.00	4.00	26.38	0.00	26.38	0.00	2.49	0.13	0.00	2.62	0.00	95.99	0.00	0.	0.00
200	12.500	32.58	0.00	0.00	0.00	4.07	25.99	0.00	25.99	0.00	2.48	0.13	0.00	2.62	0.00	95.52	0.00	0.	0.00
201	12.400	32.58	0.00	0.00	0.00	4.15	25.62	0.00	25.62	0.00	2.48	0.13	0.00	2.61	0.00	95.04	0.00	0.	0.00
202	12.300	32.58	0.00	0.00	0.00	4.23	25.26	0.00	25.26	0.00	2.47	0.13	0.00	2.60	0.00	94.57	0.00	0.	0.00
203	12.200	32.58	0.00	0.00	0.00	4.31	24.91	0.00	24.91	0.00	2.46	0.13	0.00	2.60	0.00	94.09	0.00	0.	0.00
204	12.100	32.58	0.00	0.00	0.00	4.40	24.57	0.00	24.57	0.00	2.46	0.13	0.00	2.59	0.00	93.62	0.00	0.	0.00
205	12.000	32.58	0.00	0.00	0.00	4.48	24.25	0.00	24.25	0.00	2.45	0.13	0.00	2.58	0.00	93.15	0.00	0.	0.00
206	11.900	32.58	0.00	0.00	0.00	4.57	23.93	0.00	23.93	0.00	2.45	0.13	0.00	2.58	0.00	92.67	0.00	0.	0.00
207	11.800	32.58	0.00	0.00	0.00	4.66	23.62	0.00	23.62	0.00	2.44	0.13	0.00	2.57	0.00	92.20	0.00	0.	0.00
208	11.700	32.58	0.00	0.00	0.00	4.74	23.32	0.00	23.32	0.00	2.43	0.13	0.00	2.56	0.00	91.72	0.00	0.	0.00
209	11.600	32.58	0.00	0.00	0.00	4.83	23.03	0.00	23.03	0.00	2.43	0.13	0.00	2.56	0.00	91.25	0.00	0.	0.00
210	11.500	32.57	0.00	0.00	0.00	4.92	22.75	0.00	22.75	0.00	2.42	0.13	0.00	2.55	0.00	90.78	0.00	0.	0.00
211	11.400	32.57	0.00	0.00	0.00	5.01	22.48	0.00	22.48	0.00	2.41	0.13	0.00	2.54	0.00	90.30	0.00	0.	0.00
212	11.300	32.57	0.00	0.00	0.00	5.09	22.21	0.00	22.21	0.00	2.41	0.13	0.00	2.54	0.00	89.83	0.00	0.	0.00
213	11.200	32.57	0.00	0.00	0.00	5.18	21.96	0.00	21.96	0.00	2.40	0.13	0.00	2.53	0.00	89.35	0.00	0.	0.00
214	11.100	32.57	0.00	0.00	0.00	5.27	21.71	0.00	21.71	0.00	2.39	0.13	0.00	2.52	0.00	88.88	0.00	0.	0.00
215	11.000	32.57	0.00	0.00	0.00	5.35	21.47	0.00	21.47	0.00	2.39	0.13	0.00	2.52	0.00	88.41	0.00	0.	0.00
216	10.900	32.57	0.00	0.00	0.00	5.43	21.24	0.00	21.24	0.00	2.38	0.13	0.00	2.51	0.00	87.93	0.00	0.	0.00
217	10.800	32.57	0.00	0.00	0.00	5.51	21.01	0.00	21.01	0.00	2.38	0.13	0.00	2.50	0.00	87.46	0.00	0.	0.00
218	10.700	32.57	0.00	0.00	0.00	5.59	20.79	0.00	20.79	0.00	2.37	0.13	0.00	2.50	0.00	86.98	0.00	0.	0.00
219	10.600	32.57	0.00	0.00	0.00	5.67	20.58	0.00	20.58	0.00	2.36	0.13	0.00	2.49	0.00	86.51	0.00	0.	0.00
220	10.500	32.57	0.00	0.00	0.00	5.74	20.38	0.00	20.38	0.00	2.36	0.13	0.00	2.48	0.00	86.03	0.00	0.	0.00
221	10.400	32.56	0.00	0.00	0.00	5.82	20.18	0.00	20.18	0.00	2.35	0.13	0.00	2.48	0.00	85.56	0.00	0.	0.00
222	10.300	32.56	0.00	0.00	0.00	5.89	19.98	0.00	19.98	0.00	2.35	0.13	0.00	2.47	0.00	85.09	0.00	0.	0.00
223	10.200	32.56	0.00	0.00	0.00	5.96	19.80	0.00	19.80	0.00	2.34	0.12	0.00	2.46	0.00	84.61	0.00	0.	0.00
224	10.100	32.56	0.00	0.00	0.00	6.03	19.62	0.00	19.62	0.00	2.33	0.12	0.00	2.46	0.00	84.14	0.00	0.	0.00
225	10.000	32.56	0.00	0.00	0.00	6.09	19.44	0.00	19.44	0.00	2.33	0.12	0.00	2.45	0.00	83.66	0.00	0.	0.00
226	9.900	32.56	0.00	0.00	0.00	6.15	19.27	0.00	19.27	0.00	2.32	0.12	0.00	2.44	0.00	83.19	0.00	0.	0.00
227	9.800	32.56	0.00	0.00	0.00	6.21	19.10	0.00	19.10	0.00	2.31	0.12	0.00	2.44	0.00	82.72	0.00	0.	0.00
228	9.700	32.56	0.00	0.00	0.00	6.27	18.94	0.00	18.94	0.00	2.31	0.12	0.00	2.43	0.00	82.24	0.00	0.	0.00
229	9.600	32.56	0.00	0.00	0.00	6.33	18.79	0.00	18.79	0.00	2.30	0.12	0.00	2.42	0.00	81.77	0.00	0.	0.00
230	9.500	32.56	0.00	0.00	0.00	6.38	18.64	0.00	18.64	0.00	2.30	0.12	0.00	2.42	0.00	81.29	0.00	0.	0.00
231	9.400	32.56	0.00	0.00	0.00	6.43	18.49	0.00	18.49	0.00	2.29	0.12	0.00	2.41	0.00	80.82	0.00	0.	0.00
232	9.300	32.56	0.00	0.00	0.00	6.48	18.35	0.00	18.35	0.00	2.28	0.12	0.00	2.40	0.00	80.34	0.00	0.	0.00
233	9.200	32.55	0.00	0.00	0.00	6.52	18.22	0.00	18.22	0.00	2.28	0.12	0.00	2.40	0.00	79.87	0.00	0.	0.00
234	9.100	32.55	0.00	0.00	0.00	6.57	18.08	0.00	18.08	0.00	2.27	0.12	0.00	2.39	0.00	79.40	0.00	0.	0.00
235	9.000	32.55	0.00	0.00	0.00	6.61	17.96	0.00	17.96	0.00	2.27	0.12	0.00	2.39	0.00	78.92	0.00	0.	0.00
236	8.900	32.55	0.00	0.00	0.00	6.65	17.83	0.00	17.83	0.00	2.26	0.12	0.00	2.38	0.00	78.45	0.00	0.	0.00
237	8.800	32.55	0.00	0.00	0.00	6.68	17.71	0.00	17.71	0.00	2.26	0.12	0.00	2.37	0.00	77.97	0.00	0.	0.00
238	8.700	32.55	0.00	0.00	0.00	6.71	17.59	0.00	17.59	0.00	2.25	0.12	0.00	2.37	0.00	77.50	0.00	0.	0.00
239	8.600	32.55	0.00	0.00	0.00	6.75	17.48	0.00	17.48	0.00	2.24	0.12	0.00	2.36	0.00	77.03	0.00	0.	0.00
240	8.500	32.55	0.00	0.00	0.00	6.77	17.37	0.00	17.37	0.00	2.24	0.12	0.00	2.35	0.00	76.55	0.00	0.	0.00
241	8.400	32.55	0.00	0.00	0.00	6.80	17.26	0.00	17.26	0.00	2.23	0.12	0.00	2.35	0.00	76.08	0.00	0.	0.00
242	8.300	32.55	0.00	0.00	0.00	6.82	17.16	0.00	17.16	0.00	2.23	0.12	0.00	2.34	0.00	75.60	0.00	0.	0.00
243	8.200	32.55	0.00	0.00	0.00	6.84	17.06	0.00	17.06	0.00	2.22	0.11	0.00	2.34	0.00	75.13	0.00	0.	0.00
244	8.100	32.54	0.00	0.00	0.00	6.86	16.96	0.00	16.96	0.00	2.21	0.11	0.00	2.33	0.00	74.66	0.00	0.	0.00
245	8.000	32.54	0.00	0.00	0.00	6.88	16.87	0.00	16.87	0.00	2.21	0.11	0.00	2.32	0.00	74.18	0.00	0.	0.00
246	7.900	32.54	0.00	0.00	0.00	6.89	16.78	0.00	16.78	0.00	2.20	0.11	0.00	2.32	0.00	73.71	0.00	0.	0.00
247	7.800	32.54	0.00	0.00	0.00	6.90	16.69	0.00	16.69	0.00	2.20	0.11	0.00	2.31	0.00	73.23	0.00	0.	0.00
248	7.700	32.54	0.00	0.00	0.00	6.91	16.60	0.00	16.60	0.00	2.19	0.11	0.00	2.30	0.00	72.76	0.00	0.	0.00

249	7.600	32.54	0.00	0.00	0.00	6.92	16.52	0.00	16.52	0.00	2.19	0.11	0.00	2.30	0.00	72.28	0.00	0.	0.00
250	7.500	32.54	0.00	0.00	0.00	6.92	16.44	0.00	16.44	0.00	2.18	0.11	0.00	2.29	0.00	71.81	0.00	0.	0.00
251	7.400	32.54	0.00	0.00	0.00	6.92	16.36	0.00	16.36	0.00	2.17	0.11	0.00	2.29	0.00	71.34	0.00	0.	0.00
252	7.300	32.54	0.00	0.00	0.00	6.92	16.29	0.00	16.29	0.00	2.17	0.11	0.00	2.28	0.00	70.86	0.00	0.	0.00
253	7.200	32.54	0.00	0.00	0.00	6.92	16.22	0.00	16.22	0.00	2.16	0.11	0.00	2.27	0.00	70.39	0.00	0.	0.00
254	7.100	32.54	0.00	0.00	0.00	6.92	16.14	0.00	16.14	0.00	2.16	0.11	0.00	2.27	0.00	69.91	0.00	0.	0.00
255	7.000	32.54	0.00	0.00	0.00	6.91	16.08	0.00	16.08	0.00	2.15	0.11	0.00	2.26	0.00	69.44	0.00	0.	0.00
256	6.900	32.53	0.00	0.00	0.00	6.90	16.01	0.00	16.01	0.00	2.15	0.11	0.00	2.26	0.00	68.97	0.00	0.	0.00
257	6.800	32.53	0.00	0.00	0.00	6.89	15.94	0.00	15.94	0.00	2.14	0.11	0.00	2.25	0.00	68.49	0.00	0.	0.00
258	6.700	32.53	0.00	0.00	0.00	6.88	15.88	0.00	15.88	0.00	2.14	0.11	0.00	2.24	0.00	68.02	0.00	0.	0.00
259	6.600	32.53	0.00	0.00	0.00	6.86	15.82	0.00	15.82	0.00	2.13	0.11	0.00	2.24	0.00	67.54	0.00	0.	0.00
260	6.500	32.53	0.00	0.00	0.00	6.85	15.76	0.00	15.76	0.00	2.12	0.11	0.00	2.23	0.00	67.07	0.00	0.	0.00
261	6.400	32.53	0.00	0.00	0.00	6.83	15.71	0.00	15.71	0.00	2.12	0.11	0.00	2.23	0.00	66.59	0.00	0.	0.00
262	6.300	32.53	0.00	0.00	0.00	6.81	15.65	0.00	15.65	0.00	2.11	0.11	0.00	2.22	0.00	66.12	0.00	0.	0.00
263	6.200	32.53	0.00	0.00	0.00	6.79	15.60	0.00	15.60	0.00	2.11	0.11	0.00	2.22	0.00	65.65	0.00	0.	0.00
264	6.100	32.53	0.00	0.00	0.00	6.76	15.55	0.00	15.55	0.00	2.10	0.11	0.00	2.21	0.00	65.17	0.00	0.	0.00
265	6.000	32.53	0.00	0.00	0.00	6.74	15.50	0.00	15.50	0.00	2.10	0.11	0.00	2.20	0.00	64.70	0.00	0.	0.00
266	5.900	32.53	0.00	0.00	0.00	6.71	15.45	0.00	15.45	0.00	2.09	0.11	0.00	2.20	0.00	64.22	0.00	0.	0.00
267	5.800	32.53	0.00	0.00	0.00	6.68	15.40	0.00	15.40	0.00	2.09	0.11	0.00	2.19	0.00	63.75	0.00	0.	0.00
268	5.700	32.52	0.00	0.00	0.00	6.65	15.35	0.00	15.35	0.00	2.08	0.11	0.00	2.19	0.00	63.28	0.00	0.	0.00
269	5.600	32.52	0.00	0.00	0.00	6.62	15.31	0.00	15.31	0.00	2.08	0.11	0.00	2.18	0.00	62.80	0.00	0.	0.00
270	5.500	32.52	0.00	0.00	0.00	6.58	15.27	0.00	15.27	0.00	2.07	0.11	0.00	2.18	0.00	62.33	0.00	0.	0.00
271	5.400	32.52	0.00	0.00	0.00	6.55	15.23	0.00	15.23	0.00	2.07	0.11	0.00	2.17	0.00	61.85	0.00	0.	0.00
272	5.300	32.52	0.00	0.00	0.00	6.51	15.19	0.00	15.19	0.00	2.06	0.11	0.00	2.16	0.00	61.38	0.00	0.	0.00
273	5.200	32.52	0.00	0.00	0.00	6.47	15.15	0.00	15.15	0.00	2.05	0.10	0.00	2.16	0.00	60.91	0.00	0.	0.00
274	5.100	32.52	0.00	0.00	0.00	6.43	15.11	0.00	15.11	0.00	2.05	0.10	0.00	2.15	0.00	60.43	0.00	0.	0.00
275	5.000	32.52	0.00	0.00	0.00	6.39	15.07	0.00	15.07	0.00	2.04	0.10	0.00	2.15	0.00	59.96	0.00	0.	0.00
276	4.900	32.52	0.00	0.00	0.00	6.35	15.04	0.00	15.04	0.00	2.04	0.10	0.00	2.14	0.00	59.48	0.00	0.	0.00
277	4.800	32.52	0.00	0.00	0.00	6.31	15.00	0.00	15.00	0.00	2.03	0.10	0.00	2.14	0.00	59.01	0.00	0.	0.00
278	4.700	32.52	0.00	0.00	0.00	6.26	14.97	0.00	14.97	0.00	2.03	0.10	0.00	2.13	0.00	58.53	0.00	0.	0.00
279	4.600	32.51	0.00	0.00	0.00	6.22	14.94	0.00	14.94	0.00	2.02	0.10	0.00	2.13	0.00	58.06	0.00	0.	0.00
280	4.500	32.51	0.00	0.00	0.00	6.17	14.91	0.00	14.91	0.00	2.02	0.10	0.00	2.12	0.00	57.59	0.00	0.	0.00
281	4.400	32.51	0.00	0.00	0.00	6.12	14.88	0.00	14.88	0.00	2.01	0.10	0.00	2.12	0.00	57.11	0.00	0.	0.00
282	4.300	32.51	0.00	0.00	0.00	6.07	14.85	0.00	14.85	0.00	2.01	0.10	0.00	2.11	0.00	56.64	0.00	0.	0.00
283	4.200	32.51	0.00	0.00	0.00	6.02	14.82	0.00	14.82	0.00	2.00	0.10	0.00	2.10	0.00	56.16	0.00	0.	0.00
284	4.100	32.51	0.00	0.00	0.00	5.97	14.79	0.00	14.79	0.00	2.00	0.10	0.00	2.10	0.00	55.69	0.00	0.	0.00
285	4.000	32.51	0.00	0.00	0.00	5.91	14.76	0.00	14.76	0.00	1.99	0.10	0.00	2.09	0.00	55.22	0.00	0.	0.00
286	3.900	32.51	0.00	0.00	0.00	5.86	14.74	0.00	14.74	0.00	1.99	0.10	0.00	2.09	0.00	54.74	0.00	0.	0.00
287	3.800	32.51	0.00	0.00	0.00	5.80	14.71	0.00	14.71	0.00	1.98	0.10	0.00	2.08	0.00	54.27	0.00	0.	0.00
288	3.700	32.51	0.00	0.00	0.00	5.75	14.69	0.00	14.69	0.00	1.98	0.10	0.00	2.08	0.00	53.79	0.00	0.	0.00
289	3.600	32.51	0.00	0.00	0.00	5.69	14.67	0.00	14.67	0.00	1.97	0.10	0.00	2.07	0.00	53.32	0.00	0.	0.00
290	3.500	32.51	0.00	0.00	0.00	5.63	14.64	0.00	14.64	0.00	1.97	0.10	0.00	2.07	0.00	52.84	0.00	0.	0.00
291	3.400	32.50	0.00	0.00	0.00	5.57	14.62	0.00	14.62	0.00	1.96	0.10	0.00	2.06	0.00	52.37	0.00	0.	0.00
292	3.300	32.50	0.00	0.00	0.00	5.51	14.60	0.00	14.60	0.00	1.96	0.10	0.00	2.06	0.00	51.90	0.00	0.	0.00
293	3.200	32.50	0.00	0.00	0.00	5.45	14.58	0.00	14.58	0.00	1.95	0.10	0.00	2.05	0.00	51.42	0.00	0.	0.00
294	3.100	32.50	0.00	0.00	0.00	5.39	14.56	0.00	14.56	0.00	1.95	0.10	0.00	2.05	0.00	50.95	0.00	0.	0.00
295	3.000	32.50	0.00	0.00	0.00	5.32	14.54	0.00	14.54	0.00	1.94	0.10	0.00	2.04	0.00	50.47	0.00	0.	0.00
296	2.900	32.50	0.00	0.00	0.00	5.26	14.52	0.00	14.52	0.00	1.94	0.10	0.00	2.04	0.00	50.00	0.00	0.	0.00

FINAL REPORT Grassy Lake — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 7 Lake Verret 3 — Calibration Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
297	UPR RCH	90.81248	32.50	0.00	0.00	0.00	5.26	14.52	0.00	14.52	0.00	1.94	0.10	0.00	0.00	50.00	0.00	0.00
319	WSTLD	0.00008	0.00	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	2.00	1.50	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
297	2.90	2.80	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
298	2.80	2.70	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
299	2.70	2.60	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
300	2.60	2.50	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
301	2.50	2.40	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
302	2.40	2.30	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
303	2.30	2.20	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
304	2.20	2.10	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
305	2.10	2.00	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
306	2.00	1.90	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
307	1.90	1.80	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
308	1.80	1.70	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
309	1.70	1.60	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
310	1.60	1.50	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
311	1.50	1.40	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
312	1.40	1.30	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
313	1.30	1.20	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
314	1.20	1.10	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
315	1.10	1.00	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
316	1.00	0.90	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
317	0.90	0.80	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
318	0.80	0.70	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
319	0.70	0.60	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
320	0.60	0.50	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
321	0.50	0.40	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
322	0.40	0.30	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
323	0.30	0.20	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
324	0.20	0.10	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
325	0.10	0.00	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.098	0.061
TOT						0.55			4337385.00	2224300.00					

AVG				0.0607		1.95	767.00				1495.65													
CUM					16.47																			

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

ELEM NO.	ENDING DIST 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 1/da	ABOD#2 SOD *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT *	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
297	2.800	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
298	2.700	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
299	2.600	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
300	2.500	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
301	2.400	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
302	2.300	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
303	2.200	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
304	2.100	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
305	2.000	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
306	1.900	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
307	1.800	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
308	1.700	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
309	1.600	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
310	1.500	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
311	1.400	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
312	1.300	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
313	1.200	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
314	1.100	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.49	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
315	1.000	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
316	0.900	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
317	0.800	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
318	0.700	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
319	0.600	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
320	0.500	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
321	0.400	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
322	0.300	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
323	0.200	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
324	0.100	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
325	0.000	7.24	0.48	0.41	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.03	0.00	0.48	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.38	0.23	0.00	0.00	0.00	0.00	0.00	1.30			0.02	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM

297	2.800	32.50	0.00	0.00	0.00	5.22	14.50	0.00	14.50	0.00	1.94	0.10	0.00	2.04	0.00	50.00	0.00	0.	0.00
298	2.700	32.50	0.00	0.00	0.00	5.18	14.48	0.00	14.48	0.00	1.93	0.10	0.00	2.04	0.00	50.00	0.00	0.	0.00
299	2.600	32.50	0.00	0.00	0.00	5.14	14.47	0.00	14.47	0.00	1.93	0.10	0.00	2.03	0.00	50.00	0.00	0.	0.00
300	2.500	32.50	0.00	0.00	0.00	5.10	14.45	0.00	14.45	0.00	1.93	0.10	0.00	2.03	0.00	50.00	0.00	0.	0.00
301	2.400	32.50	0.00	0.00	0.00	5.06	14.43	0.00	14.43	0.00	1.93	0.10	0.00	2.03	0.00	50.00	0.00	0.	0.00
302	2.300	32.50	0.00	0.00	0.00	5.02	14.41	0.00	14.41	0.00	1.93	0.10	0.00	2.03	0.00	50.00	0.00	0.	0.00
303	2.200	32.50	0.00	0.00	0.00	4.98	14.40	0.00	14.40	0.00	1.93	0.10	0.00	2.03	0.00	50.00	0.00	0.	0.00
304	2.100	32.50	0.00	0.00	0.00	4.94	14.38	0.00	14.38	0.00	1.93	0.10	0.00	2.03	0.00	50.00	0.00	0.	0.00
305	2.000	32.50	0.00	0.00	0.00	4.90	14.36	0.00	14.36	0.00	1.93	0.10	0.00	2.03	0.00	50.00	0.00	0.	0.00
306	1.900	32.50	0.00	0.00	0.00	4.87	14.35	0.00	14.35	0.00	1.93	0.10	0.00	2.03	0.00	50.00	0.00	0.	0.00
307	1.800	32.50	0.00	0.00	0.00	4.83	14.33	0.00	14.33	0.00	1.93	0.10	0.00	2.03	0.00	50.00	0.00	0.	0.00
308	1.700	32.50	0.00	0.00	0.00	4.79	14.31	0.00	14.31	0.00	1.93	0.10	0.00	2.03	0.00	50.00	0.00	0.	0.00
309	1.600	32.50	0.00	0.00	0.00	4.76	14.30	0.00	14.30	0.00	1.92	0.10	0.00	2.03	0.00	50.00	0.00	0.	0.00
310	1.500	32.50	0.00	0.00	0.00	4.72	14.28	0.00	14.28	0.00	1.92	0.10	0.00	2.02	0.00	50.00	0.00	0.	0.00
311	1.400	32.50	0.00	0.00	0.00	4.69	14.26	0.00	14.26	0.00	1.92	0.10	0.00	2.02	0.00	50.00	0.00	0.	0.00
312	1.300	32.50	0.00	0.00	0.00	4.65	14.25	0.00	14.25	0.00	1.92	0.10	0.00	2.02	0.00	50.00	0.00	0.	0.00
313	1.200	32.50	0.00	0.00	0.00	4.62	14.23	0.00	14.23	0.00	1.92	0.10	0.00	2.02	0.00	50.00	0.00	0.	0.00
314	1.100	32.50	0.00	0.00	0.00	4.58	14.22	0.00	14.22	0.00	1.92	0.10	0.00	2.02	0.00	50.00	0.00	0.	0.00
315	1.000	32.50	0.00	0.00	0.00	4.55	14.20	0.00	14.20	0.00	1.92	0.10	0.00	2.02	0.00	50.00	0.00	0.	0.00
316	0.900	32.50	0.00	0.00	0.00	4.52	14.18	0.00	14.18	0.00	1.92	0.10	0.00	2.02	0.00	50.00	0.00	0.	0.00
317	0.800	32.50	0.00	0.00	0.00	4.49	14.17	0.00	14.17	0.00	1.92	0.10	0.00	2.02	0.00	50.00	0.00	0.	0.00
318	0.700	32.50	0.00	0.00	0.00	4.46	14.15	0.00	14.15	0.00	1.92	0.10	0.00	2.02	0.00	50.00	0.00	0.	0.00
319	0.600	32.50	0.00	0.00	0.00	4.42	14.14	0.00	14.14	0.00	1.92	0.10	0.00	2.02	0.00	50.00	0.00	0.	0.00
320	0.500	32.50	0.00	0.00	0.00	4.39	14.12	0.00	14.12	0.00	1.91	0.10	0.00	2.01	0.00	50.00	0.00	0.	0.00
321	0.400	32.50	0.00	0.00	0.00	4.36	14.11	0.00	14.11	0.00	1.91	0.10	0.00	2.01	0.00	50.00	0.00	0.	0.00
322	0.300	32.50	0.00	0.00	0.00	4.33	14.09	0.00	14.09	0.00	1.91	0.10	0.00	2.01	0.00	50.00	0.00	0.	0.00
323	0.200	32.50	0.00	0.00	0.00	4.30	14.08	0.00	14.08	0.00	1.91	0.10	0.00	2.01	0.00	50.00	0.00	0.	0.00
324	0.100	32.50	0.00	0.00	0.00	4.27	14.06	0.00	14.06	0.00	1.91	0.10	0.00	2.01	0.00	50.00	0.00	0.	0.00
325	0.000	32.50	0.00	0.00	0.00	4.27	13.61	0.00	13.61	0.00	1.85	0.10	0.00	1.95	0.00	50.00	0.00	0.	0.00

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

TRAVEL TIME = 16.47 DAYS

MAXIMUM EFFLUENT = 33.16 PERCENT

FLOW = 51.90000 TO 90.81256 m^3/s
DISPERSION = 0.0181 TO 0.5049 m^2/s
VELOCITY = 0.01042 TO 0.15893 m/s
DEPTH = 1.01 TO 5.24 m
WIDTH = 87.00 TO ****** m

BOD DECAY = 0.28 TO 0.41 per day
NH3 DECAY = 0.46 TO 0.59 per day
SOD = 1.60 TO 7.18 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.17 TO 0.95 per day
BOD SETTLING = 0.00 TO 0.00 per day

ORG-N DECAY = 0.03 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 32.50 TO 33.90 deg C
DISSOLVED OXYGEN = 3.55 TO 6.92 mg/L

FINAL REPORT Fourmile Bayou Oxbow LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 3 Fourmile Bayou Oxbow Calibration Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
56	HDWTR	8.80000	33.90	0.00	0.00	0.00	6.80	25.50	0.00	25.50	0.00	1.70	0.10	0.04	0.00	95.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
56	4.20	4.10	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
57	4.10	4.00	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
58	4.00	3.90	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
59	3.90	3.80	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
60	3.80	3.70	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
61	3.70	3.60	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
62	3.60	3.50	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
63	3.50	3.40	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
64	3.40	3.30	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
65	3.30	3.20	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
66	3.20	3.10	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
67	3.10	3.00	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
68	3.00	2.90	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
69	2.90	2.80	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
70	2.80	2.70	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
71	2.70	2.60	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
72	2.60	2.50	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
73	2.50	2.40	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
74	2.40	2.30	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
75	2.30	2.20	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
76	2.20	2.10	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
77	2.10	2.00	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
78	2.00	1.90	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
79	1.90	1.80	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
80	1.80	1.70	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040

81	1.70	1.60	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
82	1.60	1.50	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
83	1.50	1.40	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
84	1.40	1.30	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
85	1.30	1.20	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
86	1.20	1.10	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
87	1.10	1.00	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
88	1.00	0.90	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
89	0.90	0.80	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
90	0.80	0.70	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
91	0.70	0.60	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
92	0.60	0.50	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
93	0.50	0.40	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
94	0.40	0.30	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
95	0.30	0.20	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
96	0.20	0.10	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
97	0.10	0.00	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.080	0.040
TOT					1.20			913500.00	365400.00						
AVG				0.0405			2.50	87.00			217.50				
CUM					1.20										

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

ELEM NO.	ENDING DIST 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 *	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	NCM
56	4.100	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.19	7.19	7.19	0.03	0.00	0.59	0.00	0.00	0.00	8.84	0.00	0.00	0.00	0.00	
57	4.000	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.18	7.18	7.18	0.03	0.00	0.58	0.00	0.00	0.00	8.68	0.00	0.00	0.00	0.00	
58	3.900	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.17	7.17	7.17	0.03	0.00	0.58	0.00	0.00	0.00	8.53	0.00	0.00	0.00	0.00	
59	3.800	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.16	7.16	7.16	0.03	0.00	0.58	0.00	0.00	0.00	8.37	0.00	0.00	0.00	0.00	
60	3.700	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.15	7.15	7.15	0.03	0.00	0.57	0.00	0.00	0.00	8.22	0.00	0.00	0.00	0.00	
61	3.600	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.13	7.13	7.13	0.03	0.00	0.57	0.00	0.00	0.00	8.06	0.00	0.00	0.00	0.00	
62	3.500	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.12	7.12	7.12	0.03	0.00	0.57	0.00	0.00	0.00	7.91	0.00	0.00	0.00	0.00	
63	3.400	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.11	7.11	7.11	0.03	0.00	0.56	0.00	0.00	0.00	7.75	0.00	0.00	0.00	0.00	
64	3.300	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.10	7.10	7.10	0.03	0.00	0.56	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00	
65	3.200	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.09	7.09	7.09	0.03	0.00	0.55	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00	
66	3.100	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.08	7.08	7.08	0.03	0.00	0.55	0.00	0.00	0.00	7.29	0.00	0.00	0.00	0.00	
67	3.000	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.07	7.07	7.07	0.03	0.00	0.55	0.00	0.00	0.00	7.14	0.00	0.00	0.00	0.00	
68	2.900	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.06	7.06	7.06	0.03	0.00	0.54	0.00	0.00	0.00	6.99	0.00	0.00	0.00	0.00	
69	2.800	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.05	7.05	7.05	0.03	0.00	0.54	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00	
70	2.700	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.04	7.04	7.04	0.03	0.00	0.53	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00	
71	2.600	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.03	7.03	7.03	0.03	0.00	0.52	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00	
72	2.500	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.02	7.02	7.02	0.03	0.00	0.52	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00	
73	2.400	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.01	7.01	7.01	0.03	0.00	0.51	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00	
74	2.300	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.00	7.00	7.00	0.03	0.00	0.50	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00	
75	2.200	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.99	6.99	6.99	0.03	0.00	0.50	0.00	0.00	0.00	5.93	0.00	0.00	0.00	0.00	
76	2.100	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.98	6.98	6.98	0.03	0.00	0.49	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00	

77	2.000	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.97	6.97	6.97	0.03	0.00	0.48	0.00	0.00	0.00	5.63	0.00	0.00	0.00	0.00
78	1.900	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.96	6.96	6.96	0.03	0.00	0.47	0.00	0.00	0.00	5.48	0.00	0.00	0.00	0.00
79	1.800	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.94	6.94	6.94	0.03	0.00	0.46	0.00	0.00	0.00	5.34	0.00	0.00	0.00	0.00
80	1.700	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.93	6.93	6.93	0.03	0.00	0.45	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00
81	1.600	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.92	6.92	6.92	0.03	0.00	0.44	0.00	0.00	0.00	5.04	0.00	0.00	0.00	0.00
82	1.500	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.91	6.91	6.91	0.03	0.00	0.43	0.00	0.00	0.00	4.89	0.00	0.00	0.00	0.00
83	1.400	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.90	6.90	6.90	0.03	0.00	0.42	0.00	0.00	0.00	4.74	0.00	0.00	0.00	0.00
84	1.300	7.16	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.89	6.89	6.89	0.03	0.00	0.40	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00
85	1.200	7.16	0.36	0.38	0.00	0.00	0.00	0.00	0.00	6.88	6.88	6.88	0.03	0.00	0.39	0.00	0.00	0.00	4.45	0.00	0.00	0.00	0.00
86	1.100	7.16	0.36	0.35	0.00	0.00	0.00	0.00	0.00	6.87	6.87	6.31	0.03	0.00	0.29	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00
87	1.000	7.17	0.36	0.33	0.00	0.00	0.00	0.00	0.00	6.86	6.86	5.82	0.03	0.00	0.22	0.00	0.00	0.00	4.16	0.00	0.00	0.00	0.00
88	0.900	7.17	0.36	0.30	0.00	0.00	0.00	0.00	0.00	6.85	6.85	5.40	0.03	0.00	0.16	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.00
89	0.800	7.17	0.35	0.28	0.00	0.00	0.00	0.00	0.00	6.84	6.84	5.03	0.03	0.00	0.13	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00
90	0.700	7.18	0.35	0.26	0.00	0.00	0.00	0.00	0.00	6.83	6.83	4.71	0.03	0.00	0.10	0.00	0.00	0.00	3.72	0.00	0.00	0.00	0.00
91	0.600	7.18	0.35	0.25	0.00	0.00	0.00	0.00	0.00	6.82	6.82	4.43	0.03	0.00	0.08	0.00	0.00	0.00	3.58	0.00	0.00	0.00	0.00
92	0.500	7.18	0.35	0.23	0.00	0.00	0.00	0.00	0.00	6.81	6.81	4.19	0.03	0.00	0.06	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00
93	0.400	7.18	0.35	0.22	0.00	0.00	0.00	0.00	0.00	6.80	6.80	3.97	0.03	0.00	0.05	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
94	0.300	7.19	0.35	0.21	0.00	0.00	0.00	0.00	0.00	6.79	6.79	3.77	0.03	0.00	0.04	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00
95	0.200	7.19	0.35	0.20	0.00	0.00	0.00	0.00	0.00	6.78	6.78	3.59	0.03	0.00	0.04	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
96	0.100	7.19	0.35	0.19	0.00	0.00	0.00	0.00	0.00	6.77	6.77	3.43	0.03	0.00	0.03	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
97	0.000	7.20	0.35	0.20	0.00	0.00	0.00	0.00	0.00	6.76	6.76	3.59	0.03	0.00	0.04	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.28	0.21	0.00	0.00	0.00	0.00	0.00	3.00			0.02	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
56	4.100	33.88	0.00	0.00	0.00	6.67	25.52	0.00	25.52	0.00	1.72	0.10	0.03	1.85	0.00	93.45	0.00	0.	0.00
57	4.000	33.85	0.00	0.00	0.00	6.55	25.55	0.00	25.55	0.00	1.75	0.10	0.02	1.87	0.00	91.90	0.00	0.	0.00
58	3.900	33.83	0.00	0.00	0.00	6.42	25.57	0.00	25.57	0.00	1.77	0.10	0.01	1.88	0.00	90.36	0.00	0.	0.00
59	3.800	33.80	0.00	0.00	0.00	6.29	25.59	0.00	25.59	0.00	1.80	0.10	0.00	1.89	0.00	88.81	0.00	0.	0.00
60	3.700	33.78	0.00	0.00	0.00	6.16	25.62	0.00	25.62	0.00	1.82	0.10	0.00	1.92	0.00	87.26	0.00	0.	0.00
61	3.600	33.76	0.00	0.00	0.00	6.02	25.64	0.00	25.64	0.00	1.84	0.10	0.00	1.94	0.00	85.71	0.00	0.	0.00
62	3.500	33.73	0.00	0.00	0.00	5.88	25.66	0.00	25.66	0.00	1.87	0.10	0.00	1.96	0.00	84.17	0.00	0.	0.00
63	3.400	33.71	0.00	0.00	0.00	5.74	25.69	0.00	25.69	0.00	1.89	0.10	0.00	1.99	0.00	82.62	0.00	0.	0.00
64	3.300	33.69	0.00	0.00	0.00	5.59	25.71	0.00	25.71	0.00	1.91	0.10	0.00	2.01	0.00	81.07	0.00	0.	0.00
65	3.200	33.66	0.00	0.00	0.00	5.45	25.73	0.00	25.73	0.00	1.94	0.10	0.00	2.03	0.00	79.52	0.00	0.	0.00
66	3.100	33.64	0.00	0.00	0.00	5.30	25.76	0.00	25.76	0.00	1.96	0.10	0.00	2.06	0.00	77.98	0.00	0.	0.00
67	3.000	33.61	0.00	0.00	0.00	5.14	25.78	0.00	25.78	0.00	1.98	0.10	0.00	2.08	0.00	76.43	0.00	0.	0.00
68	2.900	33.59	0.00	0.00	0.00	4.99	25.81	0.00	25.81	0.00	2.01	0.10	0.00	2.11	0.00	74.88	0.00	0.	0.00
69	2.800	33.57	0.00	0.00	0.00	4.83	25.83	0.00	25.83	0.00	2.03	0.10	0.00	2.13	0.00	73.33	0.00	0.	0.00
70	2.700	33.54	0.00	0.00	0.00	4.67	25.85	0.00	25.85	0.00	2.05	0.10	0.00	2.15	0.00	71.79	0.00	0.	0.00
71	2.600	33.52	0.00	0.00	0.00	4.51	25.88	0.00	25.88	0.00	2.08	0.10	0.00	2.18	0.00	70.24	0.00	0.	0.00
72	2.500	33.50	0.00	0.00	0.00	4.34	25.90	0.00	25.90	0.00	2.10	0.10	0.00	2.20	0.00	68.69	0.00	0.	0.00
73	2.400	33.47	0.00	0.00	0.00	4.18	25.92	0.00	25.92	0.00	2.13	0.10	0.00	2.22	0.00	67.14	0.00	0.	0.00

74	2.300	33.45	0.00	0.00	0.00	4.01	25.95	0.00	25.95	0.00	2.15	0.10	0.00	2.25	0.00	65.60	0.00	0.	0.00
75	2.200	33.42	0.00	0.00	0.00	3.83	25.97	0.00	25.97	0.00	2.17	0.10	0.00	2.27	0.00	64.05	0.00	0.	0.00
76	2.100	33.40	0.00	0.00	0.00	3.66	26.00	0.00	26.00	0.00	2.20	0.10	0.00	2.29	0.00	62.50	0.00	0.	0.00
77	2.000	33.38	0.00	0.00	0.00	3.48	26.02	0.00	26.02	0.00	2.22	0.10	0.00	2.32	0.00	60.95	0.00	0.	0.00
78	1.900	33.35	0.00	0.00	0.00	3.31	26.05	0.00	26.05	0.00	2.24	0.10	0.00	2.34	0.00	59.40	0.00	0.	0.00
79	1.800	33.33	0.00	0.00	0.00	3.13	26.07	0.00	26.07	0.00	2.27	0.10	0.00	2.37	0.00	57.86	0.00	0.	0.00
80	1.700	33.30	0.00	0.00	0.00	2.94	26.09	0.00	26.09	0.00	2.29	0.10	0.00	2.39	0.00	56.31	0.00	0.	0.00
81	1.600	33.28	0.00	0.00	0.00	2.76	26.12	0.00	26.12	0.00	2.31	0.10	0.00	2.41	0.00	54.76	0.00	0.	0.00
82	1.500	33.26	0.00	0.00	0.00	2.57	26.14	0.00	26.14	0.00	2.34	0.10	0.00	2.44	0.00	53.21	0.00	0.	0.00
83	1.400	33.23	0.00	0.00	0.00	2.38	26.17	0.00	26.17	0.00	2.36	0.10	0.00	2.46	0.00	51.67	0.00	0.	0.00
84	1.300	33.21	0.00	0.00	0.00	2.19	26.19	0.00	26.19	0.00	2.38	0.10	0.00	2.48	0.00	50.12	0.00	0.	0.00
85	1.200	33.19	0.00	0.00	0.00	2.00	26.22	0.00	26.22	0.00	2.41	0.10	0.00	2.51	0.00	48.57	0.00	0.	0.00
86	1.100	33.16	0.00	0.00	0.00	1.84	26.27	0.00	26.27	0.00	2.43	0.10	0.00	2.53	0.00	47.02	0.00	0.	0.00
87	1.000	33.14	0.00	0.00	0.00	1.70	26.33	0.00	26.33	0.00	2.45	0.10	0.00	2.56	0.00	45.48	0.00	0.	0.00
88	0.900	33.11	0.00	0.00	0.00	1.58	26.42	0.00	26.42	0.00	2.48	0.11	0.00	2.58	0.00	43.93	0.00	0.	0.00
89	0.800	33.09	0.00	0.00	0.00	1.47	26.52	0.00	26.52	0.00	2.50	0.11	0.00	2.61	0.00	42.38	0.00	0.	0.00
90	0.700	33.07	0.00	0.00	0.00	1.38	26.63	0.00	26.63	0.00	2.52	0.11	0.00	2.63	0.00	40.83	0.00	0.	0.00
91	0.600	33.04	0.00	0.00	0.00	1.30	26.75	0.00	26.75	0.00	2.54	0.11	0.00	2.66	0.00	39.29	0.00	0.	0.00
92	0.500	33.02	0.00	0.00	0.00	1.23	26.89	0.00	26.89	0.00	2.57	0.11	0.00	2.68	0.00	37.74	0.00	0.	0.00
93	0.400	33.00	0.00	0.00	0.00	1.17	27.03	0.00	27.03	0.00	2.59	0.11	0.00	2.71	0.00	36.19	0.00	0.	0.00
94	0.300	32.97	0.00	0.00	0.00	1.11	27.18	0.00	27.18	0.00	2.61	0.12	0.00	2.73	0.00	34.64	0.00	0.	0.00
95	0.200	32.95	0.00	0.00	0.00	1.06	27.33	0.00	27.33	0.00	2.64	0.12	0.00	2.76	0.00	33.10	0.00	0.	0.00
96	0.100	32.92	0.00	0.00	0.00	1.01	27.49	0.00	27.49	0.00	2.66	0.12	0.00	2.78	0.00	31.55	0.00	0.	0.00
97	0.000	32.90	0.00	0.00	0.00	1.06	27.55	0.00	27.55	0.00	2.66	0.12	0.00	2.78	0.00	30.00	0.00	0.	0.00

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

TRAVEL TIME = 1.20 DAYS

MAXIMUM EFFLUENT = 0.00 PERCENT

FLOW = 8.80000 TO 8.80000 m^3/s
DISPERSION = 0.0804 TO 0.0804 m^2/s
VELOCITY = 0.04046 TO 0.04046 m/s
DEPTH = 2.50 TO 2.50 m
WIDTH = 87.00 TO 87.00 m

BOD DECAY = 0.19 TO 0.40 per day
NH3 DECAY = 0.03 TO 0.59 per day
SOD = 3.43 TO 7.19 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.35 TO 0.36 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.03 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 32.90 TO 33.88 deg C
DISSOLVED OXYGEN = 1.01 TO 6.67 mg/L

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

REACH SUMMARY REPORT FOR Grassy Lake

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Grassy Lake	28.30	24.80	3.50	0.95	51.90000	0.04268	1.010	1343.00	1832.589	0.140	3.314	4406.38
2	Fourmile Bayou 1	24.80	22.80	2.00	0.25	51.90000	0.09257	5.240	107.00	1832.589	0.304	17.192	351.07
4	Fourmile Bayou 2	22.80	19.40	3.40	0.25	60.70000	0.15893	4.390	87.00	2143.317	0.521	14.404	285.45
5	Lake Verret 1	19.40	14.50	4.90	1.58	90.80202	0.03582	1.340	1892.00	3206.219	0.118	4.397	6207.65
6	Lake Verret 2	14.50	2.90	11.60	12.89	90.81248	0.01042	2.130	4092.00	3206.589	0.034	6.98913	425.85
7	Lake Verret 3	2.90	0.00	2.90	0.55	90.81256	0.06072	1.950	767.00	3206.592	0.199	6.398	2516.53

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

REACH SUMMARY REPORT FOR Fourmile Bayou Oxbow

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
3	Fourmile Bayou Oxbow	4.20	0.00	4.20	1.20	8.80000	0.04046	2.500	87.00	310.728	0.133	8.202	285.45

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	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
1	35138.	0.	-35139.	0.	0.	0.	0.	0.	0.	0.	0.	60.-	1049.	-32.	0.	0.	-215.	0.	0.	0.	1237.	0.	0.	-36435.2	36435.2	-0.01
2	35139.	0.	-35138.	0.	0.	0.	0.	0.	0.	0.	0.	59.-	1050.	-32.	0.	0.	-215.	0.	0.	0.	1237.	0.	0.	-36435.7	36435.7	0.00
3	35138.	0.	-35135.	0.	0.	0.	0.	0.	0.	0.	0.	59.-	1051.	-32.	0.	0.	-215.	0.	0.	0.	1236.	0.	0.	-36433.9	36433.8	-0.01
4	35135.	0.	-35129.	0.	0.	0.	0.	0.	0.	0.	0.	59.-	1053.	-32.	0.	0.	-216.	0.	0.	0.	1236.	0.	0.	-36429.7	36429.7	-0.01
5	35129.	0.	-35121.	0.	0.	0.	0.	0.	0.	0.	0.	59.-	1054.	-32.	0.	0.	-216.	0.	0.	0.	1235.	0.	0.	-36423.2	36423.2	-0.01
6	35121.	0.	-35110.	0.	0.	0.	0.	0.	0.	0.	0.	59.-	1056.	-32.	0.	0.	-216.	0.	0.	0.	1235.	0.	0.	-36414.6	36414.6	0.00
7	35110.	0.	-35098.	0.	0.	0.	0.	0.	0.	0.	0.	59.-	1057.	-32.	0.	0.	-217.	0.	0.	0.	1235.	0.	0.	-36403.9	36403.9	-0.01
8	35098.	0.	-35084.	0.	0.	0.	0.	0.	0.	0.	0.	59.-	1058.	-32.	0.	0.	-217.	0.	0.	0.	1234.	0.	0.	-36391.0	36391.0	0.01
9	35084.	0.	-35067.	0.	0.	0.	0.	0.	0.	0.	0.	59.-	1060.	-32.	0.	0.	-217.	0.	0.	0.	1234.	0.	0.	-36376.2	36376.2	0.00
10	35067.	0.	-35049.	0.	0.	0.	0.	0.	0.	0.	0.	59.-	1061.	-32.	0.	0.	-218.	0.	0.	0.	1233.	0.	0.	-36359.4	36359.3	-0.01
11	35049.	0.	-35028.	0.	0.	0.	0.	0.	0.	0.	0.	59.-	1062.	-32.	0.	0.	-218.	0.	0.	0.	1233.	0.	0.	-36340.6	36340.6	-0.01
12	35028.	0.	-35006.	0.	0.	0.	0.	0.	0.	0.	0.	59.-	1064.	-32.	0.	0.	-218.	0.	0.	0.	1232.	0.	0.	-36320.0	36320.0	0.00
13	35006.	0.	-34982.	0.	0.	0.	0.	0.	0.	0.	0.	60.-	1065.	-32.	0.	0.	-219.	0.	0.	0.	1232.	0.	0.	-36297.6	36297.6	-0.01
14	34982.	0.	-34956.	0.	0.	0.	0.	0.	0.	0.	0.	60.-	1066.	-32.	0.	0.	-219.	0.	0.	0.	1231.	0.	0.	-36273.4	36273.4	0.00
15	34956.	0.	-34929.	0.	0.	0.	0.	0.	0.	0.	0.	60.-	1067.	-32.	0.	0.	-219.	0.	0.	0.	1231.	0.	0.	-36247.5	36247.5	0.00

16	34929.	0.	-34900.	0.	0.	0.	0.	0.	0.	0.	0.	61.	-1069.	-32.	0.	0.	-220.	0.	0.	0.	1230.	0.	0.	-36219.9	36219.9	0.00
17	34900.	0.	-34869.	0.	0.	0.	0.	0.	0.	0.	0.	61.	-1070.	-32.	0.	0.	-220.	0.	0.	0.	1230.	0.	0.	-36190.7	36190.7	0.00
18	34869.	0.	-34837.	0.	0.	0.	0.	0.	0.	0.	0.	62.	-1071.	-32.	0.	0.	-220.	0.	0.	0.	1229.	0.	0.	-36159.9	36159.9	0.00
19	34837.	0.	-34803.	0.	0.	0.	0.	0.	0.	0.	0.	62.	-1072.	-32.	0.	0.	-220.	0.	0.	0.	1229.	0.	0.	-36127.6	36127.6	-0.01
20	34803.	0.	-34767.	0.	0.	0.	0.	0.	0.	0.	0.	63.	-1074.	-32.	0.	0.	-221.	0.	0.	0.	1228.	0.	0.	-36093.7	36093.7	0.00
21	34767.	0.	-34731.	0.	0.	0.	0.	0.	0.	0.	0.	63.	-1075.	-32.	0.	0.	-221.	0.	0.	0.	1227.	0.	0.	-36058.5	36058.5	0.00
22	34731.	0.	-34692.	0.	0.	0.	0.	0.	0.	0.	0.	64.	-1076.	-32.	0.	0.	-221.	0.	0.	0.	1227.	0.	0.	-36021.8	36021.8	-0.01
23	34692.	0.	-34653.	0.	0.	0.	0.	0.	0.	0.	0.	65.	-1077.	-32.	0.	0.	-222.	0.	0.	0.	1226.	0.	0.	-35983.7	35983.7	0.00
24	34653.	0.	-34612.	0.	0.	0.	0.	0.	0.	0.	0.	65.	-1078.	-31.	0.	0.	-222.	0.	0.	0.	1226.	0.	0.	-35944.3	35944.3	-0.01
25	34612.	0.	-34570.	0.	0.	0.	0.	0.	0.	0.	0.	66.	-1080.	-31.	0.	0.	-222.	0.	0.	0.	1225.	0.	0.	-35903.6	35903.6	0.00
26	34570.	0.	-29521.	0.	0.	0.	0.	0.	0.	0.	-5005.	67.	-1081.	-31.	0.	0.	-223.	0.	0.	0.	1225.	0.	0.	-35861.7	35861.7	-0.02
27	29521.	0.	-29476.	0.	0.	0.	0.	0.	0.	0.	0.	68.	-1082.	-31.	0.	0.	-223.	0.	0.	0.	1224.	0.	0.	-30813.2	30813.2	0.00
28	29476.	0.	-29431.	0.	0.	0.	0.	0.	0.	0.	0.	69.	-1083.	-31.	0.	0.	-223.	0.	0.	0.	1224.	0.	0.	-30769.2	30769.2	0.00
29	29431.	0.	-29384.	0.	0.	0.	0.	0.	0.	0.	0.	70.	-1084.	-31.	0.	0.	-224.	0.	0.	0.	1223.	0.	0.	-30724.2	30724.2	-0.01
30	29384.	0.	-29337.	0.	0.	0.	0.	0.	0.	0.	0.	71.	-1085.	-31.	0.	0.	-224.	0.	0.	0.	1223.	0.	0.	-30678.3	30678.3	0.00
31	29337.	0.	-29289.	0.	0.	0.	0.	0.	0.	0.	0.	72.	-1087.	-31.	0.	0.	-224.	0.	0.	0.	1222.	0.	0.	-30631.4	30631.4	0.00
32	29289.	0.	-29240.	0.	0.	0.	0.	0.	0.	0.	0.	73.	-1088.	-31.	0.	0.	-225.	0.	0.	0.	1222.	0.	0.	-30583.7	30583.7	0.00
33	29240.	0.	-29190.	0.	0.	0.	0.	0.	0.	0.	0.	74.	-1089.	-31.	0.	0.	-225.	0.	0.	0.	1221.	0.	0.	-30535.2	30535.2	0.00
34	29190.	0.	-29139.	0.	0.	-1.	0.	0.	0.	0.	0.	75.	-1090.	-31.	0.	0.	-225.	0.	0.	0.	1221.	0.	0.	-30485.9	30485.8	-0.01
35	29139.	0.	-29085.	1.	0.	-3.	0.	0.	0.	0.	0.	76.	-1091.	-31.	0.	0.	-226.	0.	0.	0.	1220.	0.	0.	-30435.8	30435.8	0.00
36	29085.	0.	-28960.	3.	0.	-5.	0.	0.	0.	0.	0.	6.	-525.	-13.	0.	0.	-77.	0.	0.	0.	486.	0.	0.	-29579.9	29579.9	0.00
37	28960.	0.	-28819.	5.	0.	-6.	0.	0.	0.	0.	0.	6.	-524.	-13.	0.	0.	-77.	0.	0.	0.	468.	0.	0.	-29438.9	29438.9	0.00
38	28819.	0.	-28662.	6.	0.	-6.	0.	0.	0.	0.	0.	7.	-524.	-13.	0.	0.	-76.	0.	0.	0.	449.	0.	0.	-29281.3	29281.3	0.00
39	28662.	0.	-28489.	6.	0.	-7.	0.	0.	0.	0.	0.	7.	-523.	-13.	0.	0.	-76.	0.	0.	0.	431.	0.	0.	-29107.1	29107.1	0.00
40	28489.	0.	-28299.	7.	0.	-8.	0.	0.	0.	0.	0.	8.	-522.	-13.	0.	0.	-76.	0.	0.	0.	413.	0.	0.	-28916.5	28916.5	0.00
41	28299.	0.	-28092.	8.	0.	-8.	0.	0.	0.	0.	0.	8.	-521.	-12.	0.	0.	-76.	0.	0.	0.	395.	0.	0.	-28709.5	28709.5	0.00
42	28092.	0.	-27869.	8.	0.	-9.	0.	0.	0.	0.	0.	9.	-520.	-12.	0.	0.	-75.	0.	0.	0.	377.	0.	0.	-28486.3	28486.3	0.00
43	27869.	0.	-27631.	9.	0.	-9.	0.	0.	0.	0.	0.	9.	-520.	-12.	0.	0.	-75.	0.	0.	0.	360.	0.	0.	-28247.0	28247.0	0.00
44	27631.	0.	-27376.	9.	0.	-10.	0.	0.	0.	0.	0.	10.	-519.	-12.	0.	0.	-75.	0.	0.	0.	342.	0.	0.	-27991.6	27991.7	0.00
45	27376.	0.	-27105.	10.	0.	-11.	0.	0.	0.	0.	0.	10.	-518.	-12.	0.	0.	-75.	0.	0.	0.	324.	0.	0.	-27720.4	27720.4	0.00
46	27105.	0.	-26818.	11.	0.	-11.	0.	0.	0.	0.	0.	11.	-517.	-12.	0.	0.	-74.	0.	0.	0.	307.	0.	0.	-27433.3	27433.3	0.00
47	26818.	0.	-26516.	11.	0.	-12.	0.	0.	0.	0.	0.	12.	-516.	-12.	0.	0.	-74.	0.	0.	0.	289.	0.	0.	-27130.6	27130.6	0.00
48	26516.	0.	-26198.	12.	0.	-12.	0.	0.	0.	0.	0.	12.	-516.	-12.	0.	0.	-74.	0.	0.	0.	272.	0.	0.	-26812.2	26812.2	0.00
49	26198.	0.	-25865.	12.	0.	-13.	0.	0.	0.	0.	0.	13.	-515.	-12.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-26478.4	26478.4	0.00
50	25865.	0.	-25516.	13.	0.	-13.	0.	0.	0.	0.	0.	14.	-514.	-12.	0.	0.	-73.	0.	0.	0.	237.	0.	0.	-26129.1	26129.1	0.00
51	25516.	0.	-25152.	13.	0.	-14.	0.	0.	0.	0.	0.	15.	-513.	-12.	0.	0.	-73.	0.	0.	0.	220.	0.	0.	-25764.6	25764.6	0.00
52	25152.	0.	-24773.	14.	0.	-15.	0.	0.	0.	0.	0.	16.	-513.	-12.	0.	0.	-73.	0.	0.	0.	203.	0.	0.	-25384.9	25384.9	0.00
53	24773.	0.	-24379.	15.	0.	-15.	0.	0.	0.	0.	0.	17.	-512.	-11.	0.	0.	-73.	0.	0.	0.	186.	0.	0.	-24990.2	24990.2	0.00
54	24379.	0.	-23967.	15.	0.	-19.	0.	0.	0.	0.	0.	17.	-511.	-11.	0.	0.	-73.	0.	0.	0.	169.	0.	0.	-24580.5	24580.5	0.00
55	23967.	0.	-23453.	19.	0.	-109.	0.	0.	0.	0.	0.	19.	-511.	-11.	0.	0.	-72.	0.	0.	0.	152.	0.	0.	-24156.1	24156.1	0.00
98	23453.	808.	-23987.	109.	-84.	-9.	0.	0.	0.	0.	0.	22.	-355.	-8.	0.	0.	-59.	0.	0.	0.	111.	0.	0.	-24501.6	24501.6	0.00
99	23987.	0.	-23705.	9.	0.	-9.	0.	0.	0.	0.	0.	22.	-355.	-8.	0.	0.	-59.	0.	0.	0.	118.	0.	0.	-24135.7	24135.7	0.00
100	23705.	0.	-23431.	9.	0.	-8.	0.	0.	0.	0.	0.	22.	-355.	-8.	0.	0.	-59.	0.	0.	0.	125.	0.	0.	-23861.0	23861.0	0.01
101	23431.	0.	-23164.	8.	0.	-8.	0.	0.	0.	0.	0.	23.	-355.	-8.	0.	0.	-59.	0.	0.	0.	132.	0.	0.	-23593.8	23593.8	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT

102	23164.	0.	-22904.	8.	0.	-8.	0.	0.	0.	0.	0.	23.	-356.	-8.	0.	0.	-59.	0.	0.	0.	139.	0.	0.	-23334.1	23334.1	0.00
103	22904.	0.	-22652.	8.	0.	-8.	0.	0.	0.	0.	0.	24.	-356.	-8.	0.	0.	-59.	0.	0.	0.	146.	0.	0.	-23081.9	23081.9	0.00
104	22652.	0.	-22408.	8.	0.	-8.	0.	0.	0.	0.	0.	24.	-356.	-8.	0.	0.	-59.	0.	0.	0.	153.	0.	0.	-22837.2	22837.2	0.00
105	22408.	0.	-22171.	8.	0.	-7.	0.	0.	0.	0.	0.	24.	-356.	-8.	0.	0.	-59.	0.	0.	0.	160.	0.	0.	-22599.9	22599.9	0.00
106	22171.	0.	-21941.	7.	0.	-7.	0.	0.	0.	0.	0.	25.	-356.	-8.	0.	0.	-59.	0.	0.	0.	167.	0.	0.	-22370.1	22370.1	0.00
107	21941.	0.	-21719.	7.	0.	-7.	0.	0.	0.	0.	0.	25.	-356.	-8.	0.	0.	-59.	0.	0.	0.	174.	0.	0.	-22147.7	22147.7	0.00
108	21719.	0.	-21504.	7.	0.	-7.	0.	0.	0.	0.	0.	25.	-356.	-8.	0.	0.	-59.	0.	0.	0.	182.	0.	0.	-21932.7	21932.7	0.00
109	21504.	0.	-21297.	7.	0.	-6.	0.	0.	0.	0.	0.	26.	-356.	-8.	0.	0.	-59.	0.	0.	0.	189.	0.	0.	-21725.2	21725.2	0.00
110	21297.	0.	-21097.	6.	0.	-6.	0.	0.	0.	0.	0.	26.	-356.	-8.	0.	0.	-59.	0.	0.	0.	196.	0.	0.	-21525.0	21525.0	0.00
111	21097.	0.	-20904.	6.	0.	-6.	0.	0.	0.	0.	0.	26.	-356.	-8.	0.	0.	-59.	0.	0.	0.	203.	0.	0.	-21332.2	21332.2	0.00
112	20904.	0.	-20719.	6.	0.	-6.	0.	0.	0.	0.	0.	27.	-356.	-8.	0.	0.	-59.	0.	0.	0.	210.	0.	0.	-21146.7	21146.7	0.00
113	20719.	0.	-20541.	6.	0.	-5.	0.	0.	0.	0.	0.	27.	-356.	-8.	0.	0.	-59.	0.	0.	0.	217.	0.	0.	-20968.6	20968.6	0.00
114	20541.	0.	-20371.	5.	0.	-5.	0.	0.	0.	0.	0.	27.	-356.	-8.	0.	0.	-59.	0.	0.	0.	224.	0.	0.	-20797.9	20797.9	0.00
115	20371.	0.	-20207.	5.	0.	-5.	0.	0.	0.	0.	0.	28.	-356.	-8.	0.	0.	-59.	0.	0.	0.	231.	0.	0.	-20634.4	20634.4	0.01
116	20207.	0.	-20052.	5.	0.	-5.	0.	0.	0.	0.	0.	28.	-356.	-8.	0.	0.	-59.	0.	0.	0.	238.	0.	0.	-20478.3	20478.3	0.00
117	20052.	0.	-19903.	5.	0.	-4.	0.	0.	0.	0.	0.	28.	-356.	-8.	0.	0.	-59.	0.	0.	0.	245.	0.	0.	-20329.4	20329.4	0.00
118	19903.	0.	-19762.	4.	0.	-4.	0.	0.	0.	0.	0.	28.	-356.	-8.	0.	0.	-59.	0.	0.	0.	252.	0.	0.	-20187.9	20187.9	0.00
119	19762.	0.	-19628.	4.	0.	-4.	0.	0.	0.	0.	0.	28.	-356.	-7.	0.	0.	-59.	0.	0.	0.	259.	0.	0.	-20053.6	20053.6	0.00
120	19628.	0.	-19501.	4.	0.	-4.	0.	0.	0.	0.	0.	29.	-356.	-7.	0.	0.	-59.	0.	0.	0.	266.	0.	0.	-19926.5	19926.5	0.00
121	19501.	0.	-19381.	4.	0.	-4.	0.	0.	0.	0.	0.	29.	-356.	-7.	0.	0.	-59.	0.	0.	0.	273.	0.	0.	-19806.7	19806.7	0.00
122	19381.	0.	-19269.	4.	0.	-3.	0.	0.	0.	0.	0.	29.	-356.	-7.	0.	0.	-59.	0.	0.	0.	280.	0.	0.	-19694.1	19694.1	0.00
123	19269.	0.	-19164.	3.	0.	-3.	0.	0.	0.	0.	0.	29.	-356.	-7.	0.	0.	-59.	0.	0.	0.	287.	0.	0.	-19588.7	19588.7	0.00
124	19164.	0.	-19066.	3.	0.	-3.	0.	0.	0.	0.	0.	29.	-356.	-7.	0.	0.	-59.	0.	0.	0.	295.	0.	0.	-19490.5	19490.5	0.01
125	19066.	0.	-18975.	3.	0.	-3.	0.	0.	0.	0.	0.	29.	-356.	-7.	0.	0.	-59.	0.	0.	0.	302.	0.	0.	-19399.5	19399.5	0.00
126	18975.	0.	-18891.	3.	0.	-2.	0.	0.	0.	0.	0.	30.	-356.	-7.	0.	0.	-58.	0.	0.	0.	309.	0.	0.	-19315.6	19315.6	0.00
127	18891.	0.	-18815.	2.	0.	-2.	0.	0.	0.	0.	0.	30.	-356.	-7.	0.	0.	-58.	0.	0.	0.	316.	0.	0.	-19238.9	19238.9	0.00
128	18815.	0.	-18745.	2.	0.	-2.	0.	0.	0.	0.	0.	30.	-356.	-7.	0.	0.	-58.	0.	0.	0.	323.	0.	0.	-19169.3	19169.3	0.00
129	18745.	0.	-18683.	2.	0.	-2.	0.	0.	0.	0.	0.	30.	-356.	-7.	0.	0.	-58.	0.	0.	0.	330.	0.	0.	-19106.9	19106.9	0.00
130	18683.	0.	-18633.	2.	0.	4.	0.	0.	0.	0.	0.	30.	-356.	-7.	0.	0.	-58.	0.	0.	0.	337.	0.	0.	-19055.5	19055.5	0.00
131	18633.	0.	-18758.	-4.	0.	176.	0.	0.	0.	0.	0.	30.	-355.	-7.	0.	0.	-58.	0.	0.	0.	344.	0.	0.	-19183.1	19183.1	0.00
132	18758.	0.	-38714.	-176.	0.	4.	0.	0.	0.	19765.	0.	407.	-1638.	-55.	0.	0.	-635.	0.	0.	0.	2284.	0.	0.	-41217.3	41217.3	0.00
133	38714.	0.	-39045.	-4.	0.	4.	0.	0.	0.	0.	0.	399.	-1664.	-55.	0.	0.	-635.	0.	0.	0.	2286.	0.	0.	-41402.3	41402.3	0.00
134	39045.	0.	-39345.	-4.	0.	3.	0.	0.	0.	0.	0.	393.	-1689.	-55.	0.	0.	-635.	0.	0.	0.	2288.	0.	0.	-41728.1	41728.1	0.00
135	39345.	0.	-39615.	-3.	0.	3.	0.	0.	0.	0.	0.	386.	-1715.	-55.	0.	0.	-635.	0.	0.	0.	2290.	0.	0.	-42023.8	42023.8	0.00
136	39615.	0.	-39857.	-3.	0.	3.	0.	0.	0.	0.	0.	381.	-1740.	-56.	0.	0.	-635.	0.	0.	0.	2291.	0.	0.	-42290.4	42290.4	-0.01
137	39857.	0.	-40071.	-3.	0.	2.	0.	0.	0.	0.	0.	376.	-1765.	-56.	0.	0.	-634.	0.	0.	0.	2293.	0.	0.	-42528.9	42528.9	0.00
138	40071.	0.	-40257.	-2.	0.	2.	0.	0.	0.	0.	0.	372.	-1790.	-56.	0.	0.	-634.	0.	0.	0.	2295.	0.	0.	-42739.9	42739.9	0.00
139	40257.	0.	-40418.	-2.	0.	2.	0.	0.	0.	0.	0.	368.	-1814.	-56.	0.	0.	-634.	0.	0.	0.	2297.	0.	0.	-42924.5	42924.5	0.01
140	40418.	0.	-40553.	-2.	0.	1.	0.	0.	0.	1.	0.	365.	-1839.	-57.	0.	0.	-634.	0.	0.	0.	2299.	0.	0.	-43084.0	43084.0	0.00
141	40553.	0.	-40663.	-1.	0.	1.	0.	0.	0.	0.	0.	363.	-1863.	-57.	0.	0.	-634.	0.	0.	0.	2301.	0.	0.	-43218.0	43218.0	-0.01
142	40663.	0.	-40750.	-1.	0.	1.	0.	0.	0.	0.	0.	361.	-1887.	-57.	0.	0.	-634.	0.	0.	0.	2303.	0.	0.	-43327.9	43327.9	0.00
143	40750.	0.	-40813.	-1.	0.	0.	0.	0.	0.	0.	0.	360.	-1910.	-57.	0.	0.	-634.	0.	0.	0.	2305.	0.	0.	-43414.5	43414.5	0.00
144	40813.	0.	-40854.	0.	0.	0.	0.	0.	0.	0.	0.	359.	-1934.	-57.	0.	0.	-633.	0.	0.	0.	2307.	0.	0.	-43478.5	43478.5	-0.01
145	40854.	0.	-40873.	0.	0.	0.	0.	0.	0.	0.	0.	358.	-1957.	-58.	0.	0.	-633.	0.	0.	0.	2309.	0.	0.	-43520.7	43520.7	0.00
146	40873.	0.	-40871.	0.	0.	0.	0.	0.	0.	0.	0.	359.	-1980.	-58.	0.	0.	-633.	0.	0.	0.	2310.	0.	0.	-43542.0	43542.0	-0.01
147	40871.	0.	-40849.	0.	0.	0.	0.	0.	0.	0.	0.	359.	-2002.	-58.	0.	0.	-633.	0.	0.	0.	2312.	0.	0.	-43543.0	43543.0	-0.01
148	40849.	0.	-40808.	0.	0.	-1.	0.	0.	0.	0.	0.	360.	-2025.	-58.	0.	0.	-633.	0.	0.	0.	2314.	0.	0.	-43524.2	43524.2	0.00
149	40808.	0.	-40748.	1.	0.	-1.	0.	0.	0.	0.	0.	362.	-2047.	-58.	0.	0.	-633.	0.	0.	0.	2316.	0.	0.	-43486.5	43486.5	0.00
150	40748.	0.	-40669.	1.	0.	-1.	0.	0.	0.	0.	0.	363.	-2069.	-58.	0.	0.	-632.	0.	0.	0.	2318.	0.	0.	-43430.0	43430.0	0.00
151	40669.	0.	-40573.	1.	0.	-1.	0.	0.	0.	0.	0.	366.	-2091.	-58.	0.	0.	-632.	0.	0.	0.	2320.	0.	0.	-43355.7	43355.7	0.01

152	40573.	0.	-40459.	1.	0.	-2.	0.	0.	0.	0.	0.	368.	-2113.	-59.	0.	0.	-632.	0.	0.	0.	2322.	0.	0.	-43264.1	43264.1	0.00
153	40459.	0.	-40329.	2.	0.	-2.	0.	0.	0.	0.	0.	371.	-2134.	-59.	0.	0.	-632.	0.	0.	0.	2324.	0.	0.	-43155.7	43155.7	0.00
154	40329.	0.	-40184.	2.	0.	-2.	0.	0.	0.	0.	0.	375.	-2155.	-59.	0.	0.	-632.	0.	0.	0.	2325.	0.	0.	-43031.3	43031.3	0.00
155	40184.	0.	-40022.	2.	0.	-2.	0.	0.	0.	0.	0.	378.	-2176.	-59.	0.	0.	-632.	0.	0.	0.	2327.	0.	0.	-42891.2	42891.2	0.00
156	40022.	0.	-39846.	2.	0.	-2.	0.	0.	0.	0.	0.	382.	-2197.	-59.	0.	0.	-631.	0.	0.	0.	2329.	0.	0.	-42736.2	42736.2	0.00
157	39846.	0.	-39656.	2.	0.	-2.	0.	0.	0.	0.	0.	387.	-2218.	-59.	0.	0.	-631.	0.	0.	0.	2331.	0.	0.	-42566.7	42566.7	0.00
158	39656.	0.	-39452.	2.	0.	-3.	0.	0.	0.	0.	0.	392.	-2238.	-59.	0.	0.	-631.	0.	0.	0.	2333.	0.	0.	-42383.2	42383.2	0.01
159	39452.	0.	-39235.	3.	0.	-3.	0.	0.	0.	0.	0.	397.	-2259.	-59.	0.	0.	-631.	0.	0.	0.	2335.	0.	0.	-42186.2	42186.2	0.00
160	39235.	0.	-39005.	3.	0.	-3.	0.	0.	0.	0.	0.	402.	-2279.	-59.	0.	0.	-631.	0.	0.	0.	2337.	0.	0.	-41976.2	41976.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	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
161	39005.	0.	-38762.	3.	0.	-3.	0.	0.	0.	0.	0.	407.	-2298.	-59.	0.	0.	-631.	0.	0.	0.	2339.	0.	0.	-41753.7	41753.7	0.01
162	38762.	0.	-38508.	3.	0.	-3.	0.	0.	0.	0.	0.	413.	-2318.	-59.	0.	0.	-630.	0.	0.	0.	2341.	0.	0.	-41519.2	41519.2	0.01
163	38508.	0.	-38242.	3.	0.	-3.	0.	0.	0.	0.	0.	419.	-2338.	-60.	0.	0.	-630.	0.	0.	0.	2342.	0.	0.	-41273.1	41273.1	0.00
164	38242.	0.	-37966.	3.	0.	-3.	0.	0.	0.	0.	0.	426.	-2357.	-60.	0.	0.	-630.	0.	0.	0.	2344.	0.	0.	-41015.8	41015.8	0.00
165	37966.	0.	-37679.	3.	0.	-4.	0.	0.	0.	0.	0.	432.	-2376.	-60.	0.	0.	-630.	0.	0.	0.	2346.	0.	0.	-40747.8	40747.8	0.00
166	37679.	0.	-37382.	4.	0.	-4.	0.	0.	0.	0.	0.	439.	-2395.	-60.	0.	0.	-630.	0.	0.	0.	2348.	0.	0.	-40469.5	40469.5	0.00
167	37382.	0.	-37075.	4.	0.	-4.	0.	0.	0.	0.	0.	446.	-2414.	-60.	0.	0.	-630.	0.	0.	0.	2350.	0.	0.	-40181.3	40181.3	0.00
168	37075.	0.	-36758.	4.	0.	-4.	0.	0.	0.	0.	0.	454.	-2432.	-60.	0.	0.	-629.	0.	0.	0.	2352.	0.	0.	-39883.6	39883.6	0.00
169	36758.	0.	-36433.	4.	0.	-4.	0.	0.	0.	0.	0.	461.	-2451.	-60.	0.	0.	-629.	0.	0.	0.	2354.	0.	0.	-39576.8	39576.8	0.00
170	36433.	0.	-36099.	4.	0.	-4.	0.	0.	0.	0.	0.	469.	-2469.	-60.	0.	0.	-629.	0.	0.	0.	2356.	0.	0.	-39261.2	39261.2	0.01
171	36099.	0.	-35757.	4.	0.	-4.	0.	0.	0.	0.	0.	476.	-2487.	-60.	0.	0.	-629.	0.	0.	0.	2357.	0.	0.	-38937.3	38937.3	0.00
172	35757.	0.	-35408.	4.	0.	-4.	0.	0.	0.	0.	0.	484.	-2505.	-60.	0.	0.	-629.	0.	0.	0.	2359.	0.	0.	-38605.3	38605.3	0.01
173	35408.	0.	-35050.	4.	0.	-4.	0.	0.	0.	0.	0.	493.	-2522.	-60.	0.	0.	-629.	0.	0.	0.	2361.	0.	0.	-38265.6	38265.6	0.00
174	35050.	0.	-34686.	4.	0.	-4.	0.	0.	0.	0.	0.	501.	-2540.	-60.	0.	0.	-628.	0.	0.	0.	2363.	0.	0.	-37918.6	37918.6	0.00
175	34686.	0.	-34314.	4.	0.	-4.	0.	0.	0.	0.	0.	510.	-2557.	-60.	0.	0.	-628.	0.	0.	0.	2365.	0.	0.	-37564.6	37564.6	0.01
176	34314.	0.	-33937.	4.	0.	-5.	0.	0.	0.	0.	0.	518.	-2574.	-60.	0.	0.	-628.	0.	0.	0.	2367.	0.	0.	-37203.8	37203.8	0.01
177	33937.	0.	-33553.	5.	0.	-5.	0.	0.	0.	0.	0.	527.	-2592.	-60.	0.	0.	-628.	0.	0.	0.	2369.	0.	0.	-36836.7	36836.7	0.01
178	33553.	0.	-33163.	5.	0.	-5.	0.	0.	0.	0.	0.	536.	-2608.	-60.	0.	0.	-628.	0.	0.	0.	2370.	0.	0.	-36463.5	36463.5	0.00
179	33163.	0.	-32767.	5.	0.	-5.	0.	0.	0.	0.	0.	545.	-2625.	-60.	0.	0.	-628.	0.	0.	0.	2372.	0.	0.	-36084.4	36084.4	0.00
180	32767.	0.	-32356.	5.	0.	-16.	0.	0.	0.	0.	0.	554.	-2641.	-60.	0.	0.	-628.	0.	0.	0.	2374.	0.	0.	-35700.2	35700.2	0.02
181	32356.	0.	-31265.	16.	0.	-16.	0.	0.	0.	0.	0.	1253.	-8905.	-207.	0.	0.	-1357.	0.	0.	0.	8125.	0.	0.	-41749.4	41749.4	0.03
182	31265.	0.	-30352.	16.	0.	-13.	0.	0.	0.	0.	0.	1298.	-8737.	-207.	0.	0.	-1357.	0.	0.	0.	8088.	0.	0.	-40666.0	40666.1	0.03
183	30352.	0.	-29600.	13.	0.	-10.	0.	0.	0.	0.	0.	1335.	-8574.	-208.	0.	0.	-1357.	0.	0.	0.	8051.	0.	0.	-39749.9	39749.9	0.04
184	29600.	0.	-28998.	10.	0.	-8.	0.	0.	0.	0.	0.	1364.	-8416.	-209.	0.	0.	-1357.	0.	0.	0.	8013.	0.	0.	-38988.2	38988.3	0.04
185	28998.	0.	-28533.	8.	0.	-6.	0.	0.	0.	0.	0.	1387.	-8263.	-210.	0.	0.	-1357.	0.	0.	0.	7976.	0.	0.	-38369.3	38369.3	0.04
186	28533.	0.	-28195.	6.	0.	-4.	0.	0.	0.	0.	0.	1404.	-8115.	-211.	0.	0.	-1357.	0.	0.	0.	7939.	0.	0.	-37881.7	37881.8	0.04
187	28195.	0.	-27972.	4.	0.	-2.	0.	0.	0.	0.	0.	1415.	-7972.	-213.	0.	0.	-1357.	0.	0.	0.	7902.	0.	0.	-37515.1	37515.1	0.04
188	27972.	0.	-27856.	2.	0.	0.	0.	0.	0.	0.	0.	1420.	-7832.	-214.	0.	0.	-1357.	0.	0.	0.	7865.	0.	0.	-37259.4	37259.5	0.05
189	27856.	0.	-27837.	0.	0.	1.	0.	0.	0.	0.	0.	1421.	-7697.	-216.	0.	0.	-1357.	0.	0.	0.	7828.	0.	0.	-37106.6	37106.6	0.04
190	27837.	0.	-27906.	-1.	0.	3.	0.	0.	0.	0.	0.	1418.	-7567.	-217.	0.	0.	-1356.	0.	0.	0.	7790.	0.	0.	-37048.0	37048.1	0.05
191	27906.	0.	-28056.	-3.	0.	4.	0.	0.	0.	0.	0.	1411.	-7440.	-219.	0.	0.	-1356.	0.	0.	0.	7753.	0.	0.	-37074.2	37074.3	0.04
192	28056.	0.	-28279.	-4.	0.	5.	0.	0.	0.	0.	0.	1400.	-7317.	-221.	0.	0.	-1356.	0.	0.	0.	7716.	0.	0.	-37177.2	37177.2	0.04
193	28279.	0.	-28568.	-5.	0.	6.	0.	0.	0.	0.	0.	1385.	-7198.	-223.	0.	0.	-1356.	0.	0.	0.	7679.	0.	0.	-37349.7	37349.8	0.04
194	28568.	0.	-28916.	-6.	0.	7.	0.	0.	0.	0.	0.	1368.	-7083.	-224.	0.	0.	-1356.	0.	0.	0.	7642.	0.	0.	-37585.1	37585.2	0.04
195	28916.	0.	-29317.	-7.	0.	8.	0.	0.	0.	0.	0.	1349.	-6971.	-226.	0.	0.	-1356.	0.	0.	0.	7605.	0.	0.	-37877.1	37877.2	0.04

196	29317.	0.	-29766.	-8.	0.	9.	0.	0.	0.	0.	0.	1327.	-6862.	-228.	0.	0.	-1356.	0.	0.	0.	7568.	0.	0.	-38219.9	38219.9	0.04
197	29766.	0.	-30257.	-9.	0.	9.	0.	0.	0.	0.	0.	1303.	-6757.	-230.	0.	0.	-1356.	0.	0.	0.	7530.	0.	0.	-38608.0	38608.0	0.04
198	30257.	0.	-30784.	-9.	0.	10.	0.	0.	0.	0.	0.	1277.	-6655.	-231.	0.	0.	-1356.	0.	0.	0.	7493.	0.	0.	-39036.2	39036.3	0.03
199	30784.	0.	-31345.	-10.	0.	10.	0.	0.	0.	0.	0.	1249.	-6557.	-233.	0.	0.	-1356.	0.	0.	0.	7456.	0.	0.	-39499.9	39500.0	0.03
200	31345.	0.	-31933.	-10.	0.	11.	0.	0.	0.	0.	0.	1220.	-6461.	-234.	0.	0.	-1356.	0.	0.	0.	7419.	0.	0.	-39994.6	39994.6	0.02
201	31933.	0.	-32546.	-11.	0.	11.	0.	0.	0.	0.	0.	1190.	-6368.	-236.	0.	0.	-1356.	0.	0.	0.	7382.	0.	0.	-40516.2	40516.2	0.02
202	32546.	0.	-33179.	-11.	0.	11.	0.	0.	0.	0.	0.	1159.	-6279.	-237.	0.	0.	-1356.	0.	0.	0.	7345.	0.	0.	-41060.8	41060.8	0.02
203	33179.	0.	-33828.	-11.	0.	12.	0.	0.	0.	0.	0.	1127.	-6191.	-238.	0.	0.	-1355.	0.	0.	0.	7308.	0.	0.	-41624.9	41624.9	0.02
204	33828.	0.	-34492.	-12.	0.	12.	0.	0.	0.	0.	0.	1094.	-6107.	-239.	0.	0.	-1355.	0.	0.	0.	7271.	0.	0.	-42205.1	42205.1	0.01
205	34492.	0.	-35166.	-12.	0.	12.	0.	0.	0.	0.	0.	1061.	-6025.	-240.	0.	0.	-1355.	0.	0.	0.	7234.	0.	0.	-42798.4	42798.4	0.01
206	35166.	0.	-35847.	-12.	0.	12.	0.	0.	0.	0.	0.	1028.	-5946.	-241.	0.	0.	-1355.	0.	0.	0.	7196.	0.	0.	-43401.8	43401.9	0.01
207	35847.	0.	-36534.	-12.	0.	12.	0.	0.	0.	0.	0.	994.	-5869.	-242.	0.	0.	-1355.	0.	0.	0.	7159.	0.	0.	-44012.8	44012.9	0.02
208	36534.	0.	-37225.	-12.	0.	12.	0.	0.	0.	1.	0.	960.	-5795.	-243.	0.	0.	-1355.	0.	0.	0.	7122.	0.	0.	-44629.4	44629.4	0.00
209	37225.	0.	-37915.	-12.	0.	12.	0.	0.	0.	0.	0.	926.	-5722.	-244.	0.	0.	-1355.	0.	0.	0.	7085.	0.	0.	-45248.2	45248.2	0.02
210	37915.	0.	-38604.	-12.	0.	12.	0.	0.	0.	0.	0.	892.	-5652.	-244.	0.	0.	-1355.	0.	0.	0.	7048.	0.	0.	-45867.7	45867.7	0.00
211	38604.	0.	-39290.	-12.	0.	12.	0.	0.	0.	0.	0.	859.	-5584.	-244.	0.	0.	-1355.	0.	0.	0.	7011.	0.	0.	-46485.9	46485.9	0.00
212	39290.	0.	-39971.	-12.	0.	12.	0.	0.	0.	0.	0.	825.	-5519.	-245.	0.	0.	-1355.	0.	0.	0.	6974.	0.	0.	-47101.0	47101.0	0.00
213	39971.	0.	-40645.	-12.	0.	12.	0.	0.	0.	0.	0.	792.	-5455.	-245.	0.	0.	-1355.	0.	0.	0.	6937.	0.	0.	-47711.5	47711.5	-0.01
214	40645.	0.	-41311.	-12.	0.	11.	0.	0.	0.	0.	0.	759.	-5393.	-245.	0.	0.	-1355.	0.	0.	0.	6900.	0.	0.	-48315.6	48315.6	-0.01
215	41311.	0.	-41967.	-11.	0.	11.	0.	0.	0.	0.	0.	727.	-5333.	-245.	0.	0.	-1355.	0.	0.	0.	6863.	0.	0.	-48912.1	48912.1	-0.01
216	41967.	0.	-42613.	-11.	0.	11.	0.	0.	0.	0.	0.	695.	-5275.	-245.	0.	0.	-1355.	0.	0.	0.	6826.	0.	0.	-49499.5	49499.5	0.00
217	42613.	0.	-43247.	-11.	0.	11.	0.	0.	0.	0.	0.	664.	-5219.	-245.	0.	0.	-1354.	0.	0.	0.	6788.	0.	0.	-50076.9	50076.9	-0.02
218	43247.	0.	-43868.	-11.	0.	11.	0.	0.	0.	0.	0.	634.	-5165.	-245.	0.	0.	-1354.	0.	0.	0.	6751.	0.	0.	-50643.0	50643.0	-0.02
219	43868.	0.	-44476.	-11.	0.	10.	0.	0.	0.	0.	0.	604.	-5112.	-245.	0.	0.	-1354.	0.	0.	0.	6714.	0.	0.	-51197.0	51196.9	-0.01

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD 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
220	44476.	0.	-45068.	-10.	0.	10.	0.	0.	0.	0.	0.	575.	-5061.	-245.	0.	0.	-1354.	0.	0.	0.	6677.	0.	0.	-51737.8	51737.8	-0.01
221	45068.	0.	-45646.	-10.	0.	10.	0.	0.	0.	0.	0.	547.	-5011.	-244.	0.	0.	-1354.	0.	0.	0.	6640.	0.	0.	-52264.9	52264.8	-0.02
222	45646.	0.	-46207.	-10.	0.	9.	0.	0.	0.	0.	0.	519.	-4963.	-244.	0.	0.	-1354.	0.	0.	0.	6603.	0.	0.	-52777.3	52777.2	-0.02
223	46207.	0.	-46751.	-9.	0.	9.	0.	0.	0.	0.	0.	492.	-4916.	-243.	0.	0.	-1354.	0.	0.	0.	6566.	0.	0.	-53274.4	53274.4	-0.02
224	46751.	0.	-47279.	-9.	0.	9.	0.	0.	0.	0.	0.	466.	-4871.	-243.	0.	0.	-1354.	0.	0.	0.	6529.	0.	0.	-53755.6	53755.6	-0.02
225	47279.	0.	-47788.	-9.	0.	9.	0.	0.	0.	0.	0.	441.	-4827.	-243.	0.	0.	-1354.	0.	0.	0.	6492.	0.	0.	-54220.6	54220.5	-0.03
226	47788.	0.	-48280.	-9.	0.	8.	0.	0.	0.	0.	0.	417.	-4785.	-242.	0.	0.	-1354.	0.	0.	0.	6455.	0.	0.	-54668.6	54668.6	-0.02
227	48280.	0.	-48753.	-8.	0.	8.	0.	0.	0.	0.	0.	394.	-4744.	-241.	0.	0.	-1354.	0.	0.	0.	6418.	0.	0.	-55099.5	55099.5	-0.02
228	48753.	0.	-49207.	-8.	0.	8.	0.	0.	0.	0.	0.	372.	-4704.	-241.	0.	0.	-1354.	0.	0.	0.	6381.	0.	0.	-55512.9	55512.9	-0.03
229	49207.	0.	-49642.	-8.	0.	7.	0.	0.	0.	0.	0.	350.	-4665.	-240.	0.	0.	-1354.	0.	0.	0.	6344.	0.	0.	-55908.4	55908.4	-0.02
230	49642.	0.	-50058.	-7.	0.	7.	0.	0.	0.	0.	0.	330.	-4627.	-240.	0.	0.	-1353.	0.	0.	0.	6307.	0.	0.	-56285.8	56285.8	-0.03
231	50058.	0.	-50454.	-7.	0.	7.	0.	0.	0.	0.	0.	311.	-4591.	-239.	0.	0.	-1353.	0.	0.	0.	6270.	0.	0.	-56644.9	56644.8	-0.04
232	50454.	0.	-50831.	-7.	0.	6.	0.	0.	0.	0.	0.	292.	-4556.	-238.	0.	0.	-1353.	0.	0.	0.	6233.	0.	0.	-56985.5	56985.5	-0.03
233	50831.	0.	-51189.	-6.	0.	6.	0.	0.	0.	0.	0.	275.	-4522.	-238.	0.	0.	-1353.	0.	0.	0.	6196.	0.	0.	-57307.5	57307.5	-0.02
234	51189.	0.	-51526.	-6.	0.	6.	0.	0.	0.	0.	0.	258.	-4489.	-237.	0.	0.	-1353.	0.	0.	0.	6159.	0.	0.	-57610.9	57610.8	-0.03
235	51526.	0.	-51844.	-6.	0.	5.	0.	0.	0.	0.	0.	242.	-4457.	-236.	0.	0.	-1353.	0.	0.	0.	6122.	0.	0.	-57895.5	57895.5	-0.02
236	51844.	0.	-52142.	-5.	0.	5.	0.	0.	0.	0.	0.	228.	-4426.	-235.	0.	0.	-1353.	0.	0.	0.	6085.	0.	0.	-58161.4	58161.3	-0.03
237	52142.	0.	-52420.	-5.	0.	4.	0.	0.	0.	0.	0.	214.	-4395.	-235.	0.	0.	-1353.	0.	0.	0.	6048.	0.	0.	-58408.4	58408.4	-0.03
238	52420.	0.	-52679.	-4.	0.	4.	0.	0.	0.	0.	0.	201.	-4366.	-234.	0.	0.	-1353.	0.	0.	0.	6011.	0.	0.	-58636.7	58636.7	-0.03
239	52679.	0.	-52918.	-4.	0.	4.	0.	0.	0.	0.	0.	190.	-4338.	-233.	0.	0.	-1353.	0.	0.	0.	5974.	0.	0.	-58846.3	58846.3	-0.03

240	52918.	0.	-53138.	-4.	0.	3.	0.	0.	0.	0.	0.	179.	-4311.	-232.	0.	0.	-1353.	0.	0.	0.	5937.	0.	0.	-59037.3	59037.3	-0.03
241	53138.	0.	-53338.	-3.	0.	3.	0.	0.	0.	0.	0.	169.	-4284.	-232.	0.	0.	-1353.	0.	0.	0.	5900.	0.	0.	-59209.8	59209.8	-0.03
242	53338.	0.	-53519.	-3.	0.	3.	0.	0.	0.	0.	0.	160.	-4258.	-231.	0.	0.	-1353.	0.	0.	0.	5863.	0.	0.	-59363.9	59363.9	-0.03
243	53519.	0.	-53681.	-3.	0.	2.	0.	0.	0.	0.	0.	152.	-4233.	-230.	0.	0.	-1353.	0.	0.	0.	5826.	0.	0.	-59499.7	59499.7	-0.03
244	53681.	0.	-53824.	-2.	0.	2.	0.	0.	0.	0.	0.	145.	-4209.	-229.	0.	0.	-1352.	0.	0.	0.	5789.	0.	0.	-59617.4	59617.3	-0.03
245	53824.	0.	-53948.	-2.	0.	2.	0.	0.	0.	0.	0.	139.	-4186.	-229.	0.	0.	-1352.	0.	0.	0.	5752.	0.	0.	-59717.0	59717.0	-0.04
246	53948.	0.	-54054.	-2.	0.	2.	0.	0.	0.	0.	0.	134.	-4163.	-228.	0.	0.	-1352.	0.	0.	0.	5715.	0.	0.	-59798.9	59798.8	-0.03
247	54054.	0.	-54142.	-2.	0.	1.	0.	0.	0.	0.	0.	130.	-4141.	-227.	0.	0.	-1352.	0.	0.	0.	5678.	0.	0.	-59863.1	59863.1	-0.03
248	54142.	0.	-54211.	-1.	0.	1.	0.	0.	0.	0.	0.	127.	-4119.	-226.	0.	0.	-1352.	0.	0.	0.	5641.	0.	0.	-59909.9	59909.9	-0.04
249	54211.	0.	-54263.	-1.	0.	1.	0.	0.	0.	0.	0.	124.	-4099.	-225.	0.	0.	-1352.	0.	0.	0.	5604.	0.	0.	-59939.5	59939.5	-0.03
250	54263.	0.	-54296.	-1.	0.	0.	0.	0.	0.	0.	0.	123.	-4079.	-225.	0.	0.	-1352.	0.	0.	0.	5567.	0.	0.	-59952.1	59952.1	-0.03
251	54296.	0.	-54313.	0.	0.	0.	0.	0.	0.	0.	0.	122.	-4059.	-224.	0.	0.	-1352.	0.	0.	0.	5530.	0.	0.	-59947.9	59947.9	-0.02
252	54313.	0.	-54312.	0.	0.	0.	0.	0.	0.	0.	0.	122.	-4040.	-223.	0.	0.	-1352.	0.	0.	0.	5493.	0.	0.	-59927.4	59927.3	-0.03
253	54312.	0.	-54294.	0.	0.	-1.	0.	0.	0.	0.	0.	123.	-4022.	-222.	0.	0.	-1352.	0.	0.	0.	5456.	0.	0.	-59890.9	59890.8	-0.03
254	54294.	0.	-54260.	1.	0.	-1.	0.	0.	0.	0.	0.	124.	-4004.	-221.	0.	0.	-1352.	0.	0.	0.	5419.	0.	0.	-59838.2	59838.2	-0.03
255	54260.	0.	-54209.	1.	0.	-1.	0.	0.	0.	0.	0.	127.	-3987.	-221.	0.	0.	-1352.	0.	0.	0.	5382.	0.	0.	-59769.8	59769.8	-0.03
256	54209.	0.	-54143.	1.	0.	-1.	0.	0.	0.	0.	0.	130.	-3970.	-220.	0.	0.	-1352.	0.	0.	0.	5345.	0.	0.	-59685.8	59685.7	-0.03
257	54143.	0.	-54060.	1.	0.	-2.	0.	0.	0.	0.	0.	134.	-3954.	-219.	0.	0.	-1352.	0.	0.	0.	5308.	0.	0.	-59586.3	59586.3	-0.04
258	54060.	0.	-53962.	2.	0.	-2.	0.	0.	0.	0.	0.	139.	-3939.	-218.	0.	0.	-1351.	0.	0.	0.	5271.	0.	0.	-59471.8	59471.8	-0.03
259	53962.	0.	-53848.	2.	0.	-2.	0.	0.	0.	0.	0.	145.	-3923.	-218.	0.	0.	-1351.	0.	0.	0.	5234.	0.	0.	-59342.4	59342.4	-0.02
260	53848.	0.	-53719.	2.	0.	-2.	0.	0.	0.	0.	0.	151.	-3909.	-217.	0.	0.	-1351.	0.	0.	0.	5197.	0.	0.	-59198.5	59198.5	-0.03
261	53719.	0.	-53576.	2.	0.	-3.	0.	0.	0.	0.	0.	158.	-3894.	-216.	0.	0.	-1351.	0.	0.	0.	5160.	0.	0.	-59040.3	59040.3	-0.03
262	53576.	0.	-53418.	3.	0.	-3.	0.	0.	0.	0.	0.	166.	-3881.	-215.	0.	0.	-1351.	0.	0.	0.	5123.	0.	0.	-58868.1	58868.0	-0.04
263	53418.	0.	-53246.	3.	0.	-3.	0.	0.	0.	0.	0.	175.	-3867.	-214.	0.	0.	-1351.	0.	0.	0.	5086.	0.	0.	-58681.9	58681.9	-0.04
264	53246.	0.	-53063.	3.	0.	-3.	0.	0.	0.	4.	0.	184.	-3854.	-215.	0.	0.	-1351.	0.	0.	0.	5049.	0.	0.	-58486.3	58486.3	-0.02
265	53063.	0.	-52862.	3.	0.	-4.	0.	0.	0.	0.	0.	194.	-3842.	-214.	0.	0.	-1351.	0.	0.	0.	5012.	0.	0.	-58272.6	58272.6	-0.02
266	52862.	0.	-52649.	4.	0.	-4.	0.	0.	0.	0.	0.	204.	-3829.	-213.	0.	0.	-1351.	0.	0.	0.	4975.	0.	0.	-58045.9	58045.9	-0.03
267	52649.	0.	-52422.	4.	0.	-4.	0.	0.	0.	0.	0.	216.	-3818.	-212.	0.	0.	-1351.	0.	0.	0.	4939.	0.	0.	-57806.6	57806.6	-0.03
268	52422.	0.	-52182.	4.	0.	-4.	0.	0.	0.	0.	0.	227.	-3806.	-212.	0.	0.	-1351.	0.	0.	0.	4902.	0.	0.	-57554.9	57554.8	-0.03
269	52182.	0.	-51930.	4.	0.	-5.	0.	0.	0.	0.	0.	240.	-3795.	-211.	0.	0.	-1351.	0.	0.	0.	4865.	0.	0.	-57290.9	57290.9	-0.02
270	51930.	0.	-51665.	5.	0.	-5.	0.	0.	0.	0.	0.	253.	-3784.	-210.	0.	0.	-1351.	0.	0.	0.	4828.	0.	0.	-57015.0	57015.0	-0.03
271	51665.	0.	-51389.	5.	0.	-5.	0.	0.	0.	0.	0.	266.	-3774.	-209.	0.	0.	-1350.	0.	0.	0.	4791.	0.	0.	-56727.5	56727.4	-0.03
272	51389.	0.	-51101.	5.	0.	-5.	0.	0.	0.	0.	0.	281.	-3764.	-208.	0.	0.	-1350.	0.	0.	0.	4754.	0.	0.	-56428.5	56428.5	-0.03
273	51101.	0.	-50801.	5.	0.	-5.	0.	0.	0.	0.	0.	295.	-3754.	-208.	0.	0.	-1350.	0.	0.	0.	4717.	0.	0.	-56118.3	56118.3	-0.02
274	50801.	0.	-50490.	5.	0.	-6.	0.	0.	0.	0.	0.	311.	-3744.	-207.	0.	0.	-1350.	0.	0.	0.	4680.	0.	0.	-55797.2	55797.2	-0.02
275	50490.	0.	-50168.	6.	0.	-6.	0.	0.	0.	0.	0.	326.	-3735.	-206.	0.	0.	-1350.	0.	0.	0.	4643.	0.	0.	-55465.3	55465.3	-0.03
276	50168.	0.	-49835.	6.	0.	-6.	0.	0.	0.	0.	0.	343.	-3726.	-205.	0.	0.	-1350.	0.	0.	0.	4606.	0.	0.	-55123.0	55122.9	-0.02
277	49835.	0.	-49492.	6.	0.	-6.	0.	0.	0.	0.	0.	360.	-3718.	-205.	0.	0.	-1350.	0.	0.	0.	4569.	0.	0.	-54770.4	54770.4	-0.02
278	49492.	0.	-49138.	6.	0.	-6.	0.	0.	0.	0.	0.	377.	-3709.	-204.	0.	0.	-1350.	0.	0.	0.	4533.	0.	0.	-54407.8	54407.8	-0.02

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE IN	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
279	49138.	0.	-48775.	6.	0.	-6.	0.	0.	0.	0.	0.	395.	-3701.	-203.	0.	0.	-1350.	0.	0.	0.	4496.	0.	0.	-54035.4	54035.4	-0.03
280	48775.	0.	-48401.	6.	0.	-7.	0.	0.	0.	0.	0.	413.	-3693.	-202.	0.	0.	-1350.	0.	0.	0.	4459.	0.	0.	-53653.4	53653.4	-0.02
281	48401.	0.	-48018.	7.	0.	-7.	0.	0.	0.	0.	0.	432.	-3686.	-202.	0.	0.	-1350.	0.	0.	0.	4422.	0.	0.	-53262.0	53262.0	-0.02
282	48018.	0.	-47626.	7.	0.	-7.	0.	0.	0.	0.	0.	452.	-3678.	-201.	0.	0.	-1350.	0.	0.	0.	4385.	0.	0.	-52861.6	52861.6	-0.02
283	47626.	0.	-47224.	7.	0.	-7.	0.	0.	0.	0.	0.	471.	-3671.	-200.	0.	0.	-1350.	0.	0.	0.	4348.	0.	0.	-52452.2	52452.2	-0.02

284	47224.	0.	-46814.	7.	0.	-7.	0.	0.	0.	0.	0.	492.	-3664.	-199.	0.	0.	-1350.	0.	0.	0.	4311.	0.	0.	-52034.1	52034.1	-0.02
285	46814.	0.	-46395.	7.	0.	-7.	0.	0.	0.	0.	0.	512.	-3657.	-199.	0.	0.	-1349.	0.	0.	0.	4274.	0.	0.	-51607.6	51607.6	-0.02
286	46395.	0.	-45967.	7.	0.	-8.	0.	0.	0.	0.	0.	533.	-3651.	-198.	0.	0.	-1349.	0.	0.	0.	4237.	0.	0.	-51172.7	51172.7	-0.01
287	45967.	0.	-45531.	8.	0.	-8.	0.	0.	0.	0.	0.	555.	-3645.	-197.	0.	0.	-1349.	0.	0.	0.	4201.	0.	0.	-50729.8	50729.7	-0.02
288	45531.	0.	-45087.	8.	0.	-8.	0.	0.	0.	0.	0.	576.	-3638.	-197.	0.	0.	-1349.	0.	0.	0.	4164.	0.	0.	-50278.9	50278.9	-0.01
289	45087.	0.	-44635.	8.	0.	-8.	0.	0.	0.	0.	0.	599.	-3632.	-196.	0.	0.	-1349.	0.	0.	0.	4127.	0.	0.	-49820.3	49820.3	0.00
290	44635.	0.	-44175.	8.	0.	-8.	0.	0.	0.	0.	0.	621.	-3627.	-195.	0.	0.	-1349.	0.	0.	0.	4090.	0.	0.	-49354.3	49354.3	-0.01
291	44175.	0.	-43708.	8.	0.	-8.	0.	0.	0.	0.	0.	644.	-3621.	-194.	0.	0.	-1349.	0.	0.	0.	4053.	0.	0.	-48880.9	48880.9	-0.01
292	43708.	0.	-43234.	8.	0.	-8.	0.	0.	0.	0.	0.	668.	-3616.	-194.	0.	0.	-1349.	0.	0.	0.	4016.	0.	0.	-48400.4	48400.4	-0.01
293	43234.	0.	-42752.	8.	0.	-8.	0.	0.	0.	0.	0.	691.	-3610.	-193.	0.	0.	-1349.	0.	0.	0.	3979.	0.	0.	-47912.9	47912.9	-0.02
294	42752.	0.	-42264.	8.	0.	-9.	0.	0.	0.	0.	0.	715.	-3605.	-192.	0.	0.	-1349.	0.	0.	0.	3943.	0.	0.	-47418.7	47418.7	-0.01
295	42264.	0.	-41769.	9.	0.	-9.	0.	0.	0.	0.	0.	740.	-3600.	-191.	0.	0.	-1349.	0.	0.	0.	3906.	0.	0.	-46917.8	46917.8	0.00
296	41769.	0.	-41270.	9.	0.	-5.	0.	0.	0.	0.	0.	764.	-3596.	-191.	0.	0.	-1349.	0.	0.	0.	3869.	0.	0.	-46410.4	46410.4	-0.01
297	41270.	0.	-40943.	5.	0.	-5.	0.	0.	0.	0.	0.	146.	-886.	-33.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-42085.6	42085.6	0.00
298	40943.	0.	-40620.	5.	0.	-5.	0.	0.	0.	0.	0.	149.	-885.	-33.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-41761.2	41761.2	0.00
299	40620.	0.	-40300.	5.	0.	-5.	0.	0.	0.	0.	0.	152.	-884.	-33.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-41440.8	41440.8	0.00
300	40300.	0.	-39985.	5.	0.	-5.	0.	0.	0.	0.	0.	155.	-883.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-41124.5	41124.5	0.00
301	39985.	0.	-39674.	5.	0.	-5.	0.	0.	0.	0.	0.	158.	-881.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-40812.2	40812.2	0.00
302	39674.	0.	-39367.	5.	0.	-5.	0.	0.	0.	0.	0.	161.	-880.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-40503.9	40503.9	0.00
303	39367.	0.	-39064.	5.	0.	-5.	0.	0.	0.	0.	0.	164.	-879.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-40199.4	40199.4	0.01
304	39064.	0.	-38764.	5.	0.	-5.	0.	0.	0.	0.	0.	166.	-878.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-39898.9	39898.9	0.00
305	38764.	0.	-38469.	5.	0.	-5.	0.	0.	0.	0.	0.	169.	-877.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-39602.1	39602.1	0.00
306	38469.	0.	-38177.	5.	0.	-5.	0.	0.	0.	0.	0.	172.	-876.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-39309.2	39309.2	0.00
307	38177.	0.	-37889.	5.	0.	-5.	0.	0.	0.	0.	0.	174.	-875.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-39020.0	39020.0	0.01
308	37889.	0.	-37605.	5.	0.	-5.	0.	0.	0.	0.	0.	177.	-874.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-38734.5	38734.5	0.00
309	37605.	0.	-37324.	5.	0.	-4.	0.	0.	0.	0.	0.	180.	-873.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-38452.6	38452.6	0.01
310	37324.	0.	-37047.	4.	0.	-4.	0.	0.	0.	0.	0.	182.	-872.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-38174.4	38174.4	0.00
311	37047.	0.	-36773.	4.	0.	-4.	0.	0.	0.	0.	0.	185.	-871.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-37899.7	37899.7	0.01
312	36773.	0.	-36503.	4.	0.	-4.	0.	0.	0.	0.	0.	187.	-870.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-37628.6	37628.6	0.00
313	36503.	0.	-36237.	4.	0.	-4.	0.	0.	0.	0.	0.	190.	-869.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-37361.0	37361.0	0.01
314	36237.	0.	-35974.	4.	0.	-4.	0.	0.	0.	0.	0.	192.	-868.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-37096.8	37096.8	0.00
315	35974.	0.	-35714.	4.	0.	-4.	0.	0.	0.	0.	0.	194.	-867.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-36836.0	36836.0	0.00
316	35714.	0.	-35458.	4.	0.	-4.	0.	0.	0.	0.	0.	197.	-866.	-32.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-36578.6	36578.6	0.00
317	35458.	0.	-35205.	4.	0.	-4.	0.	0.	0.	0.	0.	199.	-865.	-31.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-36324.6	36324.6	0.01
318	35205.	0.	-34955.	4.	0.	-4.	0.	0.	0.	0.	0.	201.	-865.	-31.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-36073.8	36073.8	0.00
319	34955.	0.	-34708.	4.	0.	-4.	0.	0.	0.	0.	0.	204.	-864.	-31.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-35826.3	35826.4	0.01
320	34708.	0.	-34465.	4.	0.	-4.	0.	0.	0.	0.	0.	206.	-863.	-31.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-35582.1	35582.1	0.00
321	34465.	0.	-34225.	4.	0.	-4.	0.	0.	0.	0.	0.	208.	-862.	-31.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-35341.0	35341.0	0.00
322	34225.	0.	-33988.	4.	0.	-4.	0.	0.	0.	0.	0.	210.	-861.	-31.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-35103.1	35103.1	0.00
323	33988.	0.	-33754.	4.	0.	-4.	0.	0.	0.	0.	0.	212.	-860.	-31.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-34868.2	34868.2	0.00
324	33754.	0.	-33527.	4.	0.	0.	0.	0.	0.	0.	0.	214.	-859.	-31.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-34636.4	34636.5	0.01
325	33527.	0.	-33509.	0.	0.	185.	0.	0.	0.	0.	0.	215.	-831.	-31.	0.	0.	-219.	0.	0.	0.	664.	0.	0.	-34591.1	34591.1	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Fourmile Bayou Oxbow

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	INCR IN	INCR 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
56	5170.	0.	-5075.	0.	0.	-2.	0.	0.	0.	0.	0.	3.	-220.	-6.	0.	0.	-63.	0.	0.	0.	192.	0.	0.	-5365.6	5365.6	0.00	
57	5075.	0.	-4980.	2.	0.	-2.	0.	0.	0.	0.	0.	4.	-220.	-5.	0.	0.	-62.	0.	0.	0.	189.	0.	0.	-5270.0	5270.0	0.00	

58	4980.	0.	-4882.	2.	0.	-2.	0.	0.	0.	0.	0.	5.	-220.	-5.	0.	0.	-62.	0.	0.	0.	185.	0.	0.	-5172.3	5172.3	0.00
59	4882.	0.	-4782.	2.	0.	-2.	0.	0.	0.	0.	0.	6.	-220.	-5.	0.	0.	-62.	0.	0.	0.	182.	0.	0.	-5072.4	5072.4	0.00
60	4782.	0.	-4680.	2.	0.	-2.	0.	0.	0.	0.	0.	7.	-220.	-5.	0.	0.	-62.	0.	0.	0.	179.	0.	0.	-4970.4	4970.4	0.00
61	4680.	0.	-4577.	2.	0.	-2.	0.	0.	0.	0.	0.	8.	-220.	-5.	0.	0.	-62.	0.	0.	0.	175.	0.	0.	-4866.3	4866.3	0.00
62	4577.	0.	-4470.	2.	0.	-2.	0.	0.	0.	0.	0.	9.	-220.	-5.	0.	0.	-62.	0.	0.	0.	172.	0.	0.	-4760.1	4760.1	0.00
63	4470.	0.	-4362.	2.	0.	-2.	0.	0.	0.	0.	0.	11.	-220.	-5.	0.	0.	-62.	0.	0.	0.	169.	0.	0.	-4651.9	4651.9	0.00
64	4362.	0.	-4252.	2.	0.	-2.	0.	0.	0.	0.	0.	12.	-220.	-5.	0.	0.	-62.	0.	0.	0.	165.	0.	0.	-4541.7	4541.7	0.00
65	4252.	0.	-4140.	2.	0.	-2.	0.	0.	0.	0.	0.	13.	-220.	-5.	0.	0.	-62.	0.	0.	0.	162.	0.	0.	-4429.5	4429.5	0.00
66	4140.	0.	-4026.	2.	0.	-2.	0.	0.	0.	0.	0.	14.	-220.	-5.	0.	0.	-62.	0.	0.	0.	159.	0.	0.	-4315.3	4315.3	0.00
67	4026.	0.	-3910.	2.	0.	-2.	0.	0.	0.	0.	0.	15.	-220.	-5.	0.	0.	-62.	0.	0.	0.	155.	0.	0.	-4199.2	4199.2	0.00
68	3910.	0.	-3792.	2.	0.	-2.	0.	0.	0.	0.	0.	17.	-220.	-5.	0.	0.	-61.	0.	0.	0.	152.	0.	0.	-4081.1	4081.1	0.00
69	3792.	0.	-3673.	2.	0.	-2.	0.	0.	0.	0.	0.	18.	-220.	-5.	0.	0.	-61.	0.	0.	0.	149.	0.	0.	-3961.2	3961.2	0.00
70	3673.	0.	-3551.	2.	0.	-2.	0.	0.	0.	0.	0.	19.	-220.	-5.	0.	0.	-61.	0.	0.	0.	145.	0.	0.	-3839.4	3839.4	0.00
71	3551.	0.	-3427.	2.	0.	-2.	0.	0.	0.	0.	0.	20.	-220.	-5.	0.	0.	-61.	0.	0.	0.	142.	0.	0.	-3715.8	3715.8	0.00
72	3427.	0.	-3302.	2.	0.	-3.	0.	0.	0.	0.	0.	22.	-220.	-5.	0.	0.	-61.	0.	0.	0.	139.	0.	0.	-3590.4	3590.4	0.00
73	3302.	0.	-3175.	3.	0.	-3.	0.	0.	0.	0.	0.	23.	-220.	-5.	0.	0.	-61.	0.	0.	0.	136.	0.	0.	-3463.1	3463.1	0.00
74	3175.	0.	-3046.	3.	0.	-3.	0.	0.	0.	0.	0.	24.	-220.	-5.	0.	0.	-61.	0.	0.	0.	132.	0.	0.	-3334.2	3334.2	0.00
75	3046.	0.	-2916.	3.	0.	-3.	0.	0.	0.	0.	0.	26.	-220.	-5.	0.	0.	-61.	0.	0.	0.	129.	0.	0.	-3203.5	3203.5	0.00
76	2916.	0.	-2783.	3.	0.	-3.	0.	0.	0.	0.	0.	27.	-220.	-5.	0.	0.	-61.	0.	0.	0.	126.	0.	0.	-3071.0	3071.0	0.00
77	2783.	0.	-2649.	3.	0.	-3.	0.	0.	0.	0.	0.	28.	-220.	-4.	0.	0.	-61.	0.	0.	0.	123.	0.	0.	-2936.9	2936.9	0.00
78	2649.	0.	-2514.	3.	0.	-3.	0.	0.	0.	0.	0.	30.	-220.	-4.	0.	0.	-61.	0.	0.	0.	119.	0.	0.	-2801.1	2801.1	0.00
79	2514.	0.	-2377.	3.	0.	-3.	0.	0.	0.	0.	0.	31.	-220.	-4.	0.	0.	-60.	0.	0.	0.	116.	0.	0.	-2663.7	2663.7	0.00
80	2377.	0.	-2238.	3.	0.	-3.	0.	0.	0.	0.	0.	33.	-220.	-4.	0.	0.	-60.	0.	0.	0.	113.	0.	0.	-2524.7	2524.7	0.00
81	2238.	0.	-2097.	3.	0.	-3.	0.	0.	0.	0.	0.	34.	-220.	-4.	0.	0.	-60.	0.	0.	0.	110.	0.	0.	-2384.1	2384.1	0.00
82	2097.	0.	-1955.	3.	0.	-3.	0.	0.	0.	0.	0.	35.	-220.	-4.	0.	0.	-60.	0.	0.	0.	106.	0.	0.	-2242.0	2242.0	0.00
83	1955.	0.	-1812.	3.	0.	-3.	0.	0.	0.	0.	0.	37.	-219.	-4.	0.	0.	-60.	0.	0.	0.	103.	0.	0.	-2098.4	2098.4	0.00
84	1812.	0.	-1667.	3.	0.	-3.	0.	0.	0.	0.	0.	38.	-219.	-4.	0.	0.	-60.	0.	0.	0.	100.	0.	0.	-1953.2	1953.2	0.00
85	1667.	0.	-1521.	3.	0.	-2.	0.	0.	0.	0.	0.	40.	-219.	-4.	0.	0.	-60.	0.	0.	0.	97.	0.	0.	-1806.6	1806.6	-0.01
86	1521.	0.	-1397.	2.	0.	-2.	0.	0.	0.	0.	0.	41.	-202.	-3.	0.	0.	-55.	0.	0.	0.	94.	0.	0.	-1658.3	1658.4	0.02
87	1397.	0.	-1290.	2.	0.	-2.	0.	0.	0.	0.	0.	42.	-187.	-2.	0.	0.	-51.	0.	0.	0.	90.	0.	0.	-1531.5	1531.5	0.02
88	1290.	0.	-1199.	2.	0.	-2.	0.	0.	0.	0.	0.	43.	-174.	-2.	0.	0.	-47.	0.	0.	0.	87.	0.	0.	-1422.6	1422.6	0.00
89	1199.	0.	-1119.	2.	0.	-1.	0.	0.	0.	0.	0.	44.	-163.	-1.	0.	0.	-44.	0.	0.	0.	84.	0.	0.	-1328.3	1328.3	-0.02
90	1119.	0.	-1050.	1.	0.	-1.	0.	0.	0.	0.	0.	45.	-153.	-1.	0.	0.	-41.	0.	0.	0.	81.	0.	0.	-1246.3	1246.3	-0.04
91	1050.	0.	-989.	1.	0.	-1.	0.	0.	0.	0.	0.	45.	-145.	-1.	0.	0.	-39.	0.	0.	0.	78.	0.	0.	-1174.5	1174.4	-0.06
92	989.	0.	-936.	1.	0.	-1.	0.	0.	0.	0.	0.	46.	-137.	-1.	0.	0.	-36.	0.	0.	0.	75.	0.	0.	-1111.0	1110.9	-0.06
93	936.	0.	-888.	1.	0.	-1.	0.	0.	0.	0.	0.	46.	-131.	-1.	0.	0.	-35.	0.	0.	0.	71.	0.	0.	-1054.5	1054.4	-0.06
94	888.	0.	-845.	1.	0.	-1.	0.	0.	0.	0.	0.	47.	-125.	0.	0.	0.	-33.	0.	0.	0.	68.	0.	0.	-1003.8	1003.7	-0.05
95	845.	0.	-806.	1.	0.	-1.	0.	0.	0.	0.	0.	47.	-120.	0.	0.	0.	-31.	0.	0.	0.	65.	0.	0.	-957.9	957.9	-0.02
96	806.	0.	-771.	1.	0.	1.	0.	0.	0.	0.	0.	48.	-115.	0.	0.	0.	-30.	0.	0.	0.	62.	0.	0.	-916.7	916.8	0.05
97	771.	0.	-808.	-1.	0.	84.	0.	0.	0.	0.	0.	47.	-121.	0.	0.	0.	-31.	0.	0.	0.	59.	0.	0.	-961.0	961.0	0.03

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

INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD#1	BOD#2	ORG-N	NH3-N	NO3-N	PHOS	CHL A	NCM
	m³/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d		
HEADWATER FLOW	69.5	40308.2	142633.4	0	9683.7	600.5	240.2	0	0	0
INCREMENTAL INFLOW	0	0	0	0	0	0	0	0	0	0
INCREMENTAL OUTFLOW	0	0	0	0	0	0	0	0	0	0
WASTELOADS	30.113	19770.3	43707.8	0	6243.7	265.1	522.3	0	0	0
WITHDRAWLS	-8.8	-5005.5	-17944.8	0	-1302.1	-70.4	0	0	0	0
FLOW THRU LOWER BNDRY	-90.813	-33509.5	-106812.6	0	-14513.7	-790.7	0	0	0	0
DISPERSION THRU LOWER BNDRY		184.9	-3452.2	0	-469.1	-0.2	279	0	0	0
DISPERSION THRU HDWTR BNDRY		0	0	0	0	0	0	0	0	0
NON-POINT INPUT		0	714573.1	0	7600					0
NATURAL REAERATION		99084.6								
DAM REAERATION		0								
BACKGROUND SOD		-207721.4								
BOD#1 DECAY		-772704.7	-772704.7							
BOD#1 SETTLING		0	0							
ANAEROBIC BOD#1 DECAY			0							
BOD#2 DECAY		0		0						
BOD#2 SETTLING		0		0						
ANAEROBIC BOD#2 DECAY				0						
ORG-N DECAY		0			-7242.4	7242.4				
ORG-N SETTLING					0	0				
NH3 DECAY		-31378.6				-7246.8	7246.8			
BACKGROUND NH3 SOURCE						0				
OTHER DENITRIFICATION							0			
PHOSPHORUS SOURCE								0		
ALGAE PHOTOSYNTHESIS		890970.2				0	-44548.6	0	0	
ALGAE RESPIRATION		0				0		0	0	
ALGAE SETTLING		0							0	

MACRO PHOTOSYNTHESIS		0				0	0	0		
NCM DECAY		0								0
NCM SETTLING		0								0
TOTAL INPUTS	99.613	1050318.2	900914.4	0	23527.4	8107.9	8288.2	0	0	0
TOTAL OUTPUTS	-99.613	-1050319.6	-900914.2	0	-23527.3	-8108.1	-44548.6	0	0	0
NET CONVERGENCE ERROR	0	-1.4	0.1	0	0.1	-0.2	-36260.3	0	0	0

.....EXECUTION COMPLETED

Calibration output file for subsegment 120604

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

Input file is D:\LA TMDL 2006\TO95\TT_Models\Bayou Blue\Blue_Calib_will.txt
Output produced at 17:19 on 10/17/2007

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

CARD TYPE      CONTROL TITLES

TITLE01        LA-QUAL calibration for Bayou Blue
TITLE02        FTN Field Survey calibration
CNTROL03   NO   SEQU                <Warning: legacy control - line ignored>
CNTROL04  YES   METR
CNTROL05  YES   OXYG                <Warning: legacy control - line ignored>
ENDATA01

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

CARD TYPE      MODEL OPTION

MODOPT01   NO   TEMP
MODOPT02   NO   SALI
MODOPT03   NO   CONSERVATIVE MATERIAL
MODOPT04   NO   CONSERVATIVE MATERIAL II
MODOPT05  YES   DISS
MODOPT06  YES   BIOC
MODOPT07  YES   NITR
MODOPT08   NO   PHOS
MODOPT09   NO   CHLO
MODOPT10   NO   MACR
MODOPT11   NO   COLI
MODOPT12   NO   NONC
ENDATA02

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

PROGRAM        HYDRAULIC CALCULATION METHOD      =       2.00000 (widths and depths)
PROGRAM        MAXIMUM ITERATION LIMIT           =     500.00000
PROGRAM        ALGAE OXYGEN PROD                 =       0.02600 mg O/ug chl a/day
PROGRAM        WIND                              =       1.30000 meters/sec
ENDATA03

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

 CARD TYPE    RATE CODE    THETA VALUE
```

```
THETA       NH3 DECA       1.07000
ENDATA04

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA05

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA06

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

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE

ENDATA07

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

REACH ID     1   BB  BayouBlue#1                    20.20  TO    3.70   0.1000    16.50     165       1    165
REACH ID     2   IC  ICWWtoBlue                     1.40  TO    0.00   0.1000     1.40      14     166    179
REACH ID     3   BB  BayouBlue#2                     3.70  TO    0.00   0.1000     3.70      37     180    216
ENDATA08

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

CARD TYPE  REACH  ID      WIDTH      WIDTH      WIDTH      DEPTH      DEPTH      DEPTH     SLOPE    MANNINGS
                  "A"        "B"        "C"        "D"        "E"        "F"                "N"

HYDR-1       1   BB      0.000      0.000     10.000      0.000      0.000      0.500    0.00000   0.000
HYDR-1       2   IC      0.000      0.000     44.000      0.000      0.000      1.400    0.00000   0.000
HYDR-1       3   BB      0.000      0.000     65.500      0.000      0.000      0.900    0.00000   0.000
ENDATA09

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

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

ENDATA10

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

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

INITIAL        1  BB     31.20    0.00    3.00    0.10    0.00    0.00   20.00    0.00
INITIAL        2  IC     32.00    0.00    3.00    0.11    0.00    0.00   20.00    0.00
INITIAL        3  BB     32.00    0.00    3.00    0.11    0.00    0.00   20.00    0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                   BOD    ANAER                  BOD2    ANAER
CARD    RCH  RCH  K2              K2      K2      K2  BKGRND     BOD     BOD    CONV    BOD2    BOD2    BOD2    CONV    BOD2
TYPE    NUM   ID  OPT            "A"     "B"     "C"     SOD   DECAY    SETT  TO SOD   DECAY   DECAY    SETT  TO SOD   DECAY
                                        g/m²/d  per day     m/d           per day  per day     m/d           per day

COEFF-1   1  BB   3 OCONNER-DOBB   0.000   0.000   0.000   0.500   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   2  IC   3 OCONNER-DOBB   0.000   0.000   0.000   0.500   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   3  BB   3 OCONNER-DOBB   0.000   0.000   0.000   0.500   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
ENDATA12

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

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

COEFF-2        1  BB     0.020   0.000   1.000   0.130   0.000   0.000   0.000
COEFF-2        2  IC     0.020   0.000   1.000   0.130   0.000   0.000   0.000
COEFF-2        3  BB     0.020   0.000   1.000   0.130   0.000   0.000   0.000
ENDATA13

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

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

ENDATA14

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

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

ENDATA15

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

CARD TYPE     REACH  ID     OUTFLOW    INFLOW     TEMP    SALIN     CM-I    CM-II  IN/DIST  OUT/DIST

INCR-1         1  BB     0.00000   0.05000   30.90    0.00    0.00    0.00  0.00303  0.00000
INCR-1         2  IC     0.00000   0.00000   30.90    0.00    0.00    0.00  0.00000  0.00000
INCR-1         3  BB     0.00000   0.00000   30.90    0.00    0.00    0.00  0.00000  0.00000
```

```
ENDATA16

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

CARD TYPE     REACH  ID        DO      BOD     ORG-N    NH3-N    NO3-N    BOD#2

INCR-2          1   BB       1.68     4.69     1.20     0.40     0.00     0.00
INCR-2          2   IC       1.68     4.69     1.20     0.40     0.00     0.00
INCR-2          3   BB       1.68     4.69     1.20     0.40     0.00     0.00
ENDATA17

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

 CARD TYPE     REACH  ID       PHOS     CHL A     COLI      NCM

ENDATA18

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

CARD TYPE     REACH  ID      BOD#1    ORG-N     COLI      NCM       DO    BOD#2

NONPOINT        1   BB     240.00     0.00     0.00     0.00     0.00     0.00
NONPOINT        2   IC     200.00     0.00     0.00     0.00     0.00     0.00
NONPOINT        3   BB     700.00     0.00     0.00     0.00     0.00     0.00
ENDATA19

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

CARD TYPE    ELEMENT   NAME              UNIT    FLOW    FLOW    TEMP    SALIN     CM-I    CM-II
                                         m³/s     cfs   deg C     ppt

HDWTR-1        1     BayouBlue#1          0   0.39600   13.983   31.20     0.00     0.000     0.000   0.00
HDWTR-1      166     ICWWtoBlue           0   0.39600   13.983   32.00     0.00     0.000     0.000   0.00
ENDATA20

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

CARD TYPE    ELEMENT   NAME                    DO    BOD#1    ORG-N    NH3-N    NO3-N    BOD#2
                                             mg/L     mg/L     mg/L     mg/L     mg/L     mg/L

HDWTR-2        1     BayouBlue#1            1.68     4.69     1.20     0.40     0.00     0.00
HDWTR-2      166     ICWWtoBlue             1.39     3.81     1.14     0.49     0.00     0.00
ENDATA21

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

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

ENDATA22
```

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

CARD TYPE   JUNCTION   UPSTRM    RIVER    NAME
         ELEMENT  ELEMENT    KILOM

JUNCTION        180     165      3.70    ICWWtoBlue
ENDATA23

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

CARD TYPE  ELEMENT   RKILO  NAME                 FLOW      FLOW    FLOW   TEMP   SALIN     CM-I    CM-II
                                          m³/s      cfs     MGD   deg C     ppt

WSTLD-1      63     14.00  toICWW            -0.39638  -13.99647   -9.047   31.20     0.00    0.000    0.000
WSTLD-1     103     10.00  LAG531463          0.00010    0.00353    0.002   31.20     0.00    0.000    0.000
WSTLD-1     119      8.40  LA0084077          0.00017    0.00600    0.004   31.20     0.00    0.000    0.000
ENDATA24

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

WSTLD-2        63    toICWW                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WSTLD-2       103    LAG531463             5.00    45.00     0.00     1.40     1.50     0.00     0.00     0.00
WSTLD-2       119    LA0084077             5.00    45.00     0.00     1.40     1.50     0.00     0.00     0.00
ENDATA25

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

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

ENDATA26

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

CARD TYPE    CONSTITUENT                CONCENTRATION

ENDATA27

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

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

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$
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```
CARD TYPE      PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

ENDATA29

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


NUMBER OF PLOTS =  2
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH  1  3
NUMBER OF REACHES IN PLOT 2 =   1
PLOT RCH  2
ENDATA30

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


OVERLAY 1 Blue.ovl                    :BayouBlue (120604)
OVERLAY 2 ICWWtoBlue.ovl                :ICWWtoBlue
ENDATA31



    .....NO ERRORS DETECTED IN INPUT DATA
    .....HYDRAULIC CALCULATIONS COMPLETED
    .....TRIDIAGONAL MATRIX TERMS INITIALIZED
    .....OXYGEN DEPENDENT RATES CONVERGENT IN   9 ITERATIONS
    .....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING:  NEGATIVE CONCENTRATIONS SET TO ZERO FOR Nitrate+Nitrite Nitrogen
    .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
    .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12


INTERMEDIATE REPORT
 Dissolved Oxygen                                  LA-QUAL calibration for Bayou Blue
    mg/L                                        FTN Field Survey calibration


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

 BB    1    1      1.95     2.20     2.44     2.67     2.88     3.08     3.27     3.45     3.62     3.78
 BB    1   11      3.93     4.08     4.21     4.34     4.46     4.57     4.68     4.78     4.88     4.97
 BB    1   21      5.06     5.14     5.22     5.29     5.36     5.42     5.48     5.54     5.60     5.65
 BB    1   31      5.70     5.74     5.79     5.83     5.87     5.90     5.94     5.97     6.00     6.03
 BB    1   41      6.06     6.08     6.11     6.13     6.15     6.17     6.19     6.21     6.23     6.24
 BB    1   51      6.26     6.27     6.29     6.30     6.31     6.32     6.33     6.34     6.35     6.36
 BB    1   61      6.37     6.38     6.35     6.02     5.79     5.63     5.52     5.44     5.37     5.32
 BB    1   71      5.28     5.25     5.22     5.20     5.18     5.16     5.15     5.13     5.12     5.11
 BB    1   81      5.09     5.08     5.07     5.07     5.06     5.05     5.04     5.04     5.03     5.02
 BB    1   91      5.02     5.01     5.01     5.01     5.00     5.00     4.99     4.99     4.99     4.98
```

BB	1	101	4.98	4.98	4.97	4.97	4.96	4.96	4.95	4.95	4.95	4.95
BB	1	111	4.95	4.94	4.94	4.94	4.94	4.94	4.94	4.94	4.93	4.93
BB	1	121	4.92	4.92	4.92	4.91	4.91	4.91	4.91	4.91	4.91	4.91
BB	1	131	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91
BB	1	141	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.90	4.90	4.90
BB	1	151	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90
BB	1	161	4.90	4.90	4.90	4.90	4.90					
BB	3	180	4.10	4.19	4.26	4.31	4.35	4.38	4.41	4.42	4.43	4.43
BB	3	190	4.43	4.42	4.41	4.40	4.39	4.37	4.36	4.34	4.32	4.30
BB	3	200	4.28	4.26	4.24	4.22	4.20	4.18	4.16	4.14	4.13	4.11
BB	3	210	4.09	4.07	4.06	4.04	4.02	4.01	3.99			
IC	2	166	1.82	2.14	2.43	2.68	2.89	3.08	3.24	3.38	3.50	3.60
IC	2	176	3.69	3.76	3.83	3.88						

INTERMEDIATE REPORT
Effective BOD — LA-QUAL calibration for Bayou Blue
mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	4.72	4.74	4.77	4.79	4.82	4.84	4.86	4.89	4.91	4.94
BB	1	11	4.96	4.98	5.01	5.03	5.05	5.08	5.10	5.12	5.15	5.17
BB	1	21	5.19	5.21	5.24	5.26	5.28	5.30	5.33	5.35	5.37	5.39
BB	1	31	5.41	5.43	5.46	5.48	5.50	5.52	5.54	5.56	5.58	5.60
BB	1	41	5.62	5.64	5.66	5.68	5.70	5.72	5.74	5.76	5.78	5.80
BB	1	51	5.82	5.84	5.86	5.88	5.90	5.91	5.93	5.95	5.97	5.99
BB	1	61	6.01	6.03	6.04	6.41	6.74	7.04	7.31	7.55	7.77	7.97
BB	1	71	8.15	8.31	8.46	8.60	8.72	8.84	8.94	9.03	9.12	9.20
BB	1	81	9.27	9.34	9.40	9.46	9.51	9.56	9.60	9.64	9.68	9.71
BB	1	91	9.75	9.78	9.80	9.83	9.85	9.87	9.89	9.91	9.93	9.95
BB	1	101	9.96	9.98	10.10	10.10	10.11	10.11	10.12	10.12	10.13	10.13
BB	1	111	10.13	10.13	10.14	10.14	10.14	10.14	10.15	10.15	10.31	10.30
BB	1	121	10.29	10.29	10.28	10.28	10.27	10.27	10.26	10.26	10.25	10.25
BB	1	131	10.25	10.24	10.24	10.23	10.23	10.23	10.22	10.22	10.22	10.21
BB	1	141	10.21	10.21	10.20	10.20	10.20	10.19	10.19	10.19	10.19	10.18
BB	1	151	10.18	10.18	10.18	10.17	10.17	10.17	10.17	10.16	10.16	10.16
BB	1	161	10.16	10.16	10.15	10.15	10.15					
BB	3	180	6.89	7.10	7.30	7.49	7.67	7.85	8.02	8.19	8.35	8.50
BB	3	190	8.65	8.79	8.92	9.05	9.18	9.30	9.42	9.53	9.64	9.74
BB	3	200	9.84	9.93	10.03	10.11	10.20	10.28	10.36	10.43	10.51	10.58
BB	3	210	10.64	10.71	10.77	10.83	10.89	10.94	11.00			
IC	2	166	4.05	4.27	4.48	4.68	4.87	5.05	5.22	5.39	5.54	5.69
IC	2	176	5.84	5.98	6.11	6.23						

INTERMEDIATE REPORT
Biochemical Oxygen Demand — LA-QUAL calibration for Bayou Blue
mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	4.72	4.74	4.77	4.79	4.82	4.84	4.86	4.89	4.91	4.94
BB	1	11	4.96	4.98	5.01	5.03	5.05	5.08	5.10	5.12	5.15	5.17
BB	1	21	5.19	5.21	5.24	5.26	5.28	5.30	5.33	5.35	5.37	5.39
BB	1	31	5.41	5.43	5.46	5.48	5.50	5.52	5.54	5.56	5.58	5.60
BB	1	41	5.62	5.64	5.66	5.68	5.70	5.72	5.74	5.76	5.78	5.80
BB	1	51	5.82	5.84	5.86	5.88	5.90	5.91	5.93	5.95	5.97	5.99
BB	1	61	6.01	6.03	6.04	6.41	6.74	7.04	7.31	7.55	7.77	7.97
BB	1	71	8.15	8.31	8.46	8.60	8.72	8.84	8.94	9.03	9.12	9.20
BB	1	81	9.27	9.34	9.40	9.46	9.51	9.56	9.60	9.64	9.68	9.71
BB	1	91	9.75	9.78	9.80	9.83	9.85	9.87	9.89	9.91	9.93	9.95
BB	1	101	9.96	9.98	10.10	10.10	10.11	10.11	10.12	10.12	10.13	10.13
BB	1	111	10.13	10.13	10.14	10.14	10.14	10.14	10.15	10.15	10.31	10.30
BB	1	121	10.29	10.29	10.28	10.28	10.27	10.27	10.26	10.26	10.25	10.25
BB	1	131	10.25	10.24	10.24	10.23	10.23	10.23	10.22	10.22	10.22	10.21
BB	1	141	10.21	10.21	10.20	10.20	10.20	10.19	10.19	10.19	10.19	10.18
BB	1	151	10.18	10.18	10.18	10.17	10.17	10.17	10.17	10.16	10.16	10.16
BB	1	161	10.16	10.16	10.15	10.15	10.15					
BB	3	180	6.89	7.10	7.30	7.49	7.67	7.85	8.02	8.19	8.35	8.50
BB	3	190	8.65	8.79	8.92	9.05	9.18	9.30	9.42	9.53	9.64	9.74
BB	3	200	9.84	9.93	10.03	10.11	10.20	10.28	10.36	10.43	10.51	10.58
BB	3	210	10.64	10.71	10.77	10.83	10.89	10.94	11.00			
IC	2	166	4.05	4.27	4.48	4.68	4.87	5.05	5.22	5.39	5.54	5.69
IC	2	176	5.84	5.98	6.11	6.23						

INTERMEDIATE REPORT
Organic Nitrogen
mg/L

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
BB	1	11	1.20	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
BB	1	21	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
BB	1	31	1.19	1.19	1.19	1.19	1.19	1.18	1.18	1.18	1.18	1.18
BB	1	41	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
BB	1	51	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
BB	1	61	1.17	1.17	1.17	1.17	1.16	1.15	1.14	1.13	1.13	1.12
BB	1	71	1.11	1.11	1.10	1.10	1.09	1.08	1.08	1.07	1.07	1.06
BB	1	81	1.06	1.06	1.05	1.05	1.04	1.04	1.03	1.03	1.03	1.02
BB	1	91	1.02	1.02	1.01	1.01	1.01	1.00	1.00	1.00	0.99	0.99
BB	1	101	0.99	0.99	0.99	0.98	0.98	0.98	0.98	0.97	0.97	0.97
BB	1	111	0.97	0.97	0.96	0.96	0.96	0.96	0.96	0.95	0.95	0.95
BB	1	121	0.95	0.95	0.95	0.95	0.94	0.94	0.94	0.94	0.94	0.94
BB	1	131	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.92	0.92

BB	1	141	0.92	0.92	0.92	0.92	0.92	0.92	0.91	0.91	0.91	0.91
BB	1	151	0.91	0.91	0.91	0.91	0.91	0.91	0.90	0.90	0.90	0.90
BB	1	161	0.90	0.90	0.90	0.90	0.90					
BB	3	180	1.05	1.04	1.04	1.03	1.03	1.03	1.02	1.02	1.01	1.01
BB	3	190	1.01	1.00	1.00	0.99	0.99	0.99	0.98	0.98	0.98	0.97
BB	3	200	0.97	0.96	0.96	0.96	0.95	0.95	0.95	0.94	0.94	0.94
BB	3	210	0.93	0.93	0.92	0.92	0.92	0.91	0.91			
IC	2	166	1.13	1.13	1.12	1.12	1.11	1.11	1.10	1.10	1.09	1.09
IC	2	176	1.08	1.08	1.07	1.07						

INTERMEDIATE REPORT
Ammonia Nitrogen — LA-QUAL calibration for Bayou Blue
mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39
BB	1	11	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38
BB	1	21	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37
BB	1	31	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36
BB	1	41	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35
BB	1	51	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
BB	1	61	0.35	0.34	0.34	0.33	0.31	0.30	0.29	0.28	0.27	0.26
BB	1	71	0.25	0.24	0.24	0.23	0.22	0.22	0.21	0.21	0.21	0.20
BB	1	81	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18
BB	1	91	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16
BB	1	101	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
BB	1	111	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.16	0.16
BB	1	121	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15
BB	1	131	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
BB	1	141	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
BB	1	151	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BB	1	161	0.14	0.14	0.14	0.14	0.14					
BB	3	180	0.30	0.29	0.29	0.28	0.27	0.27	0.26	0.25	0.25	0.24
BB	3	190	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20
BB	3	200	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16
BB	3	210	0.16	0.16	0.16	0.15	0.15	0.15	0.15			
IC	2	166	0.48	0.47	0.46	0.45	0.43	0.42	0.41	0.40	0.38	0.37
IC	2	176	0.36	0.35	0.34	0.33						

INTERMEDIATE REPORT
Nitrate+Nitrite Nitrogen — LA-QUAL calibration for Bayou Blue
mg/L — FTN Field Survey calibration

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

BB	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
BB	1	41	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BB	1	51	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BB	1	61	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
BB	1	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	161	0.00	0.00	0.00	0.00	0.00					
BB	3	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
IC	2	166	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
IC	2	176	0.01	0.01	0.01	0.01						

INTERMEDIATE REPORT
Total Nitrogen
mg/L

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	1.60	1.60	1.60	1.60	1.59	1.59	1.59	1.59	1.59	1.59
BB	1	11	1.59	1.59	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
BB	1	21	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.56
BB	1	31	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.55	1.55	1.55
BB	1	41	1.55	1.55	1.55	1.55	1.55	1.55	1.54	1.54	1.54	1.54
BB	1	51	1.54	1.54	1.54	1.54	1.54	1.53	1.53	1.53	1.53	1.53
BB	1	61	1.53	1.53	1.53	1.50	1.48	1.45	1.43	1.41	1.39	1.38
BB	1	71	1.36	1.35	1.34	1.32	1.31	1.30	1.29	1.28	1.27	1.27
BB	1	81	1.26	1.25	1.24	1.24	1.23	1.22	1.22	1.21	1.21	1.20
BB	1	91	1.19	1.19	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.16
BB	1	101	1.15	1.15	1.15	1.15	1.14	1.14	1.14	1.13	1.13	1.13
BB	1	111	1.13	1.12	1.12	1.12	1.11	1.11	1.11	1.11	1.11	1.11
BB	1	121	1.11	1.11	1.10	1.10	1.10	1.10	1.09	1.09	1.09	1.09
BB	1	131	1.09	1.09	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.07
BB	1	141	1.07	1.07	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.06
BB	1	151	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BB	1	161	1.04	1.04	1.04	1.04	1.04					
BB	3	180	1.35	1.34	1.33	1.31	1.30	1.29	1.28	1.27	1.26	1.25

BB	3	190	1.24	1.23	1.23	1.22	1.21	1.20	1.19	1.18	1.18	1.17
BB	3	200	1.16	1.15	1.15	1.14	1.13	1.13	1.12	1.11	1.11	1.10
BB	3	210	1.09	1.09	1.08	1.07	1.07	1.06	1.06			
IC	2	166	1.62	1.60	1.58	1.57	1.55	1.54	1.52	1.51	1.49	1.47
IC	2	176	1.46	1.44	1.43	1.41						

INTERMEDIATE REPORT
Chlorophyll a — LA-QUAL calibration for Bayou Blue
µg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	11	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	21	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	31	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	41	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	51	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	61	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	71	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	81	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	91	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	101	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	111	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	121	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	131	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	141	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	151	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	161	20.00	20.00	20.00	20.00	20.00					
BB	3	180	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	3	190	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	3	200	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	3	210	20.00	20.00	20.00	20.00	20.00	20.00	20.00			
IC	2	166	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	176	20.00	20.00	20.00	20.00						

INTERMEDIATE REPORT
Temperature — LA-QUAL calibration for Bayou Blue
deg C — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	31.20	31.21	31.21	31.22	31.22	31.23	31.23	31.24	31.24	31.25
BB	1	11	31.25	31.26	31.26	31.27	31.27	31.28	31.28	31.29	31.29	31.30
BB	1	21	31.30	31.31	31.31	31.32	31.32	31.33	31.33	31.34	31.34	31.35
BB	1	31	31.35	31.36	31.36	31.36	31.37	31.37	31.38	31.38	31.39	31.39

BB	1	41	31.40	31.40	31.41	31.41	31.42	31.42	31.43	31.43	31.44	31.44
BB	1	51	31.45	31.45	31.46	31.46	31.47	31.47	31.48	31.48	31.49	31.49
BB	1	61	31.50	31.50	31.51	31.51	31.52	31.52	31.52	31.53	31.53	31.54
BB	1	71	31.54	31.55	31.55	31.56	31.56	31.57	31.57	31.58	31.58	31.59
BB	1	81	31.59	31.60	31.60	31.61	31.61	31.62	31.62	31.63	31.63	31.64
BB	1	91	31.64	31.65	31.65	31.66	31.66	31.67	31.67	31.68	31.68	31.68
BB	1	101	31.69	31.69	31.70	31.70	31.71	31.71	31.72	31.72	31.73	31.73
BB	1	111	31.74	31.74	31.75	31.75	31.76	31.76	31.77	31.77	31.78	31.78
BB	1	121	31.79	31.79	31.80	31.80	31.81	31.81	31.82	31.82	31.83	31.83
BB	1	131	31.84	31.84	31.84	31.85	31.85	31.86	31.86	31.87	31.87	31.88
BB	1	141	31.88	31.89	31.89	31.90	31.90	31.91	31.91	31.92	31.92	31.93
BB	1	151	31.93	31.94	31.94	31.95	31.95	31.96	31.96	31.97	31.97	31.98
BB	1	161	31.98	31.99	31.99	32.00	32.00					
BB	3	180	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
BB	3	190	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
BB	3	200	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
BB	3	210	32.00	32.00	32.00	32.00	32.00	32.00	32.00			
IC	2	166	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
IC	2	176	32.00	32.00	32.00	32.00						

INTERMEDIATE REPORT

Salinity — LA-QUAL calibration for Bayou Blue

ppt — FTN Field Survey calibration

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

IC	2	176	0.00	0.00	0.00	0.00

INTERMEDIATE REPORT
River Distance — LA-QUAL calibration for Bayou Blue
km — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	20.	20.	20.	20.	20.	20.	19.	19.	19.	19.
BB	1	11	19.	19.	19.	19.	19.	19.	18.	18.	18.	18.
BB	1	21	18.	18.	18.	18.	18.	18.	17.	17.	17.	17.
BB	1	31	17.	17.	17.	17.	17.	17.	16.	16.	16.	16.
BB	1	41	16.	16.	16.	16.	16.	16.	15.	15.	15.	15.
BB	1	51	15.	15.	15.	15.	15.	15.	14.	14.	14.	14.
BB	1	61	14.	14.	14.	14.	14.	14.	13.	13.	13.	13.
BB	1	71	13.	13.	13.	13.	13.	13.	12.	12.	12.	12.
BB	1	81	12.	12.	12.	12.	12.	12.	11.	11.	11.	11.
BB	1	91	11.	11.	11.	11.	11.	11.	10.	10.	10.	10.
BB	1	101	10.	10.	10.	10.	10.	10.	9.	9.	9.	9.
BB	1	111	9.	9.	9.	9.	9.	9.	8.	8.	8.	8.
BB	1	121	8.	8.	8.	8.	8.	8.	7.	7.	7.	7.
BB	1	131	7.	7.	7.	7.	7.	7.	6.	6.	6.	6.
BB	1	141	6.	6.	6.	6.	6.	6.	5.	5.	5.	5.
BB	1	151	5.	5.	5.	5.	5.	5.	4.	4.	4.	4.
BB	1	161	4.	4.	4.	4.	4.					
BB	3	180	4.	4.	3.	3.	3.	3.	3.	3.	3.	3.
BB	3	190	3.	3.	2.	2.	2.	2.	2.	2.	2.	2.
BB	3	200	2.	2.	1.	1.	1.	1.	1.	1.	1.	1.
BB	3	210	1.	1.	0.	0.	0.	0.	0.			
IC	2	166	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.
IC	2	176	0.	0.	0.	0.						

INTERMEDIATE REPORT
Flow — LA-QUAL calibration for Bayou Blue
m^3/s — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BB	1	11	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BB	1	21	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BB	1	31	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BB	1	41	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BB	1	51	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BB	1	61	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BB	1	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	151	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	161	0.0	0.0	0.0	0.0	0.0					
BB	3	180	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BB	3	190	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BB	3	200	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
BB	3	210	0.4	0.4	0.4	0.4	0.4	0.4	0.4			
IC	2	166	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
IC	2	176	0.4	0.4	0.4	0.4						

INTERMEDIATE REPORT

Dispersion
m^2/s

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	151	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	161	0.0	0.0	0.0	0.0	0.0					
BB	3	180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	3	190	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	3	200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	3	210	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
IC	2	166	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	2	176	0.0	0.0	0.0	0.0						

INTERMEDIATE REPORT

Advective Velocity
m/s

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BB	1	11	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BB	1	21	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BB	1	31	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BB	1	41	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BB	1	51	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
BB	1	61	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	151	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	1	161	0.0	0.0	0.0	0.0	0.0					
BB	3	180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	3	190	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	3	200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BB	3	210	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
IC	2	166	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IC	2	176	0.0	0.0	0.0	0.0						

INTERMEDIATE REPORT

Depth
m

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	11	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	21	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	31	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	41	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	51	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	61	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	71	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	81	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	91	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	101	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	111	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

BB	1	121	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	131	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	141	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	151	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BB	1	161	0.5	0.5	0.5	0.5	0.5					
BB	3	180	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BB	3	190	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BB	3	200	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
BB	3	210	0.9	0.9	0.9	0.9	0.9	0.9	0.9			
IC	2	166	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
IC	2	176	1.4	1.4	1.4	1.4						

INTERMEDIATE REPORT
Width — LA-QUAL calibration for Bayou Blue
m — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	11	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	21	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	31	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	41	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	51	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	61	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	71	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	81	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	91	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	101	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	111	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	121	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	131	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	141	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	151	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
BB	1	161	10.0	10.0	10.0	10.0	10.0					
BB	3	180	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
BB	3	190	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
BB	3	200	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
BB	3	210	65.5	65.5	65.5	65.5	65.5	65.5	65.5			
IC	2	166	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
IC	2	176	44.0	44.0	44.0	44.0						

INTERMEDIATE REPORT
Cross-Sectional Area — LA-QUAL calibration for Bayou Blue
m^2 — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	11	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	21	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	31	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	41	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	51	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	61	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	71	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	81	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	91	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	101	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	111	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	121	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	131	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	141	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	151	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
BB	1	161	5.0	5.0	5.0	5.0	5.0					
BB	3	180	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
BB	3	190	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
BB	3	200	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
BB	3	210	58.9	58.9	58.9	58.9	58.9	58.9	58.9			
IC	2	166	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IC	2	176	61.6	61.6	61.6	61.6						

INTERMEDIATE REPORT

Reaeration Rate
per day

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration

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

BB	1	161	1.742	1.742	1.742	1.742	1.743					
BB	3	180	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968
BB	3	190	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968
BB	3	200	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968
BB	3	210	0.968	0.968	0.968	0.968	0.968	0.968	0.968			
IC	2	166	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622
IC	2	176	0.622	0.622	0.622	0.622						

INTERMEDIATE REPORT
BOD Decay Rate
per day

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration

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

INTERMEDIATE REPORT
BOD Settling Rate
per day

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration

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

BB	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	161	0.00	0.00	0.00	0.00	0.00					
BB	3	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
IC	2	166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	176	0.00	0.00	0.00	0.00						

INTERMEDIATE REPORT

Ammonia Decay Rate
per day

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.18	0.20	0.20	0.21	0.22	0.22	0.23	0.23	0.23	0.24
BB	1	11	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	21	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	31	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27
BB	1	41	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
BB	1	51	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
BB	1	61	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26
BB	1	71	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	81	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	91	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	101	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	111	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	121	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	131	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	141	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	151	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	161	0.26	0.26	0.26	0.26	0.26					
BB	3	180	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	3	190	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	3	200	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25

BB	3	210	0.25	0.25	0.25	0.25	0.25	0.25	0.25			
IC	2	166	0.14	0.20	0.21	0.22	0.23	0.23	0.24	0.24	0.24	0.24
IC	2	176	0.25	0.25	0.25	0.25						

INTERMEDIATE REPORT
Sediment Oxygen Demand LA-QUAL calibration for Bayou Blue
g/m²/d FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.99	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.02	1.02
BB	1	11	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BB	1	21	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BB	1	31	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BB	1	41	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	1	51	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	1	61	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	1	71	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
BB	1	81	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
BB	1	91	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
BB	1	101	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05
BB	1	111	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BB	1	121	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BB	1	131	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.06	1.06	1.06
BB	1	141	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BB	1	151	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BB	1	161	1.06	1.06	1.06	1.06	1.06					
BB	3	180	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BB	3	190	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BB	3	200	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BB	3	210	1.06	1.06	1.06	1.06	1.06	1.06	1.06			
IC	2	166	0.97	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
IC	2	176	1.06	1.06	1.06	1.06						

CONDENSED CAPSULE SUMMARY FOR BayouBlue#1

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3	CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.39600	31.20	0.00	1.68	4.69	0.00	1.20	0.40	20.00							
20.10	0.39630	31.20	0.00	1.95	4.72	0.00	1.20	0.40	20.00	3.84	0.24	0.00	0.00	0.00	0.18	0.99
20.00	0.39661	31.21	0.00	2.20	4.74	0.00	1.20	0.40	20.00	3.85	0.25	0.00	0.00	0.00	0.20	1.01
19.90	0.39691	31.21	0.00	2.44	4.77	0.00	1.20	0.40	20.00	3.85	0.25	0.00	0.00	0.00	0.20	1.01
19.80	0.39721	31.22	0.00	2.67	4.79	0.00	1.20	0.40	20.00	3.85	0.25	0.00	0.00	0.00	0.21	1.01
19.70	0.39752	31.22	0.00	2.88	4.82	0.00	1.20	0.40	20.00	3.85	0.25	0.00	0.00	0.00	0.22	1.01
19.60	0.39782	31.23	0.00	3.08	4.84	0.00	1.20	0.40	20.00	3.85	0.25	0.00	0.00	0.00	0.22	1.01

19.50	0.39812	31.23	0.00	3.27	4.86	0.00	1.20	0.39	20.00	3.86	0.25	0.00	0.00	0.00	0.23	1.01
19.40	0.39842	31.24	0.00	3.45	4.89	0.00	1.20	0.39	20.00	3.86	0.25	0.00	0.00	0.00	0.23	1.01
19.30	0.39873	31.24	0.00	3.62	4.91	0.00	1.20	0.39	20.00	3.86	0.25	0.00	0.00	0.00	0.23	1.02
19.20	0.39903	31.25	0.00	3.78	4.94	0.00	1.20	0.39	20.00	3.86	0.25	0.00	0.00	0.00	0.24	1.02
19.10	0.39933	31.25	0.00	3.93	4.96	0.00	1.20	0.39	20.00	3.86	0.25	0.00	0.00	0.00	0.24	1.02
19.00	0.39964	31.26	0.00	4.08	4.98	0.00	1.19	0.39	20.00	3.86	0.25	0.00	0.00	0.00	0.24	1.02
18.90	0.39994	31.26	0.00	4.21	5.01	0.00	1.19	0.39	20.00	3.87	0.25	0.00	0.00	0.00	0.24	1.02
18.80	0.40024	31.27	0.00	4.34	5.03	0.00	1.19	0.39	20.00	3.87	0.25	0.00	0.00	0.00	0.24	1.02
18.70	0.40055	31.27	0.00	4.46	5.05	0.00	1.19	0.39	20.00	3.87	0.25	0.00	0.00	0.00	0.25	1.02
18.60	0.40085	31.28	0.00	4.57	5.08	0.00	1.19	0.39	20.00	3.87	0.25	0.00	0.00	0.00	0.25	1.02
18.50	0.40115	31.28	0.00	4.68	5.10	0.00	1.19	0.39	20.00	3.87	0.25	0.00	0.00	0.00	0.25	1.02
18.40	0.40145	31.29	0.00	4.78	5.12	0.00	1.19	0.38	20.00	3.88	0.25	0.00	0.00	0.00	0.25	1.02
18.30	0.40176	31.29	0.00	4.88	5.15	0.00	1.19	0.38	20.00	3.88	0.25	0.00	0.00	0.00	0.25	1.02
18.20	0.40206	31.30	0.00	4.97	5.17	0.00	1.19	0.38	20.00	3.88	0.25	0.00	0.00	0.00	0.25	1.02
18.10	0.40236	31.30	0.00	5.06	5.19	0.00	1.19	0.38	20.00	3.88	0.25	0.00	0.00	0.00	0.25	1.02
18.00	0.40267	31.31	0.00	5.14	5.21	0.00	1.19	0.38	20.00	3.88	0.25	0.00	0.00	0.00	0.26	1.02
17.90	0.40297	31.31	0.00	5.22	5.24	0.00	1.19	0.38	20.00	3.88	0.25	0.00	0.00	0.00	0.26	1.02
17.80	0.40327	31.32	0.00	5.29	5.26	0.00	1.19	0.38	20.00	3.89	0.25	0.00	0.00	0.00	0.26	1.02
17.70	0.40358	31.32	0.00	5.36	5.28	0.00	1.19	0.38	20.00	3.89	0.25	0.00	0.00	0.00	0.26	1.02
17.60	0.40388	31.33	0.00	5.42	5.30	0.00	1.19	0.38	20.00	3.89	0.25	0.00	0.00	0.00	0.26	1.02
17.50	0.40418	31.33	0.00	5.48	5.33	0.00	1.19	0.38	20.00	3.89	0.25	0.00	0.00	0.00	0.26	1.02
17.40	0.40448	31.34	0.00	5.54	5.35	0.00	1.19	0.38	20.00	3.89	0.25	0.00	0.00	0.00	0.26	1.02
17.30	0.40479	31.34	0.00	5.60	5.37	0.00	1.19	0.37	20.00	3.89	0.25	0.00	0.00	0.00	0.26	1.02
17.20	0.40509	31.35	0.00	5.65	5.39	0.00	1.19	0.37	20.00	3.90	0.25	0.00	0.00	0.00	0.26	1.02
17.10	0.40539	31.35	0.00	5.70	5.41	0.00	1.19	0.37	20.00	3.90	0.25	0.00	0.00	0.00	0.26	1.02
17.00	0.40570	31.36	0.00	5.74	5.43	0.00	1.19	0.37	20.00	3.90	0.25	0.00	0.00	0.00	0.26	1.02
16.90	0.40600	31.36	0.00	5.79	5.46	0.00	1.19	0.37	20.00	3.90	0.25	0.00	0.00	0.00	0.26	1.02
16.80	0.40630	31.36	0.00	5.83	5.48	0.00	1.19	0.37	20.00	3.90	0.25	0.00	0.00	0.00	0.26	1.02
16.70	0.40661	31.37	0.00	5.87	5.50	0.00	1.19	0.37	20.00	3.91	0.25	0.00	0.00	0.00	0.26	1.02
16.60	0.40691	31.37	0.00	5.90	5.52	0.00	1.18	0.37	20.00	3.91	0.25	0.00	0.00	0.00	0.26	1.02
16.50	0.40721	31.38	0.00	5.94	5.54	0.00	1.18	0.37	20.00	3.91	0.25	0.00	0.00	0.00	0.26	1.02
16.40	0.40752	31.38	0.00	5.97	5.56	0.00	1.18	0.37	20.00	3.91	0.25	0.00	0.00	0.00	0.26	1.02
16.30	0.40782	31.39	0.00	6.00	5.58	0.00	1.18	0.36	20.00	3.91	0.25	0.00	0.00	0.00	0.27	1.02
16.20	0.40812	31.39	0.00	6.03	5.60	0.00	1.18	0.36	20.00	3.91	0.25	0.00	0.00	0.00	0.27	1.02
16.10	0.40842	31.40	0.00	6.06	5.62	0.00	1.18	0.36	20.00	3.92	0.25	0.00	0.00	0.00	0.27	1.02
16.00	0.40873	31.40	0.00	6.08	5.64	0.00	1.18	0.36	20.00	3.92	0.25	0.00	0.00	0.00	0.27	1.03
15.90	0.40903	31.41	0.00	6.11	5.66	0.00	1.18	0.36	20.00	3.92	0.25	0.00	0.00	0.00	0.27	1.03
15.80	0.40933	31.41	0.00	6.13	5.68	0.00	1.18	0.36	20.00	3.92	0.25	0.00	0.00	0.00	0.27	1.03
15.70	0.40964	31.42	0.00	6.15	5.70	0.00	1.18	0.36	20.00	3.92	0.25	0.00	0.00	0.00	0.27	1.03
15.60	0.40994	31.42	0.00	6.17	5.72	0.00	1.18	0.36	20.00	3.93	0.25	0.00	0.00	0.00	0.27	1.03
15.50	0.41024	31.43	0.00	6.19	5.74	0.00	1.18	0.36	20.00	3.93	0.25	0.00	0.00	0.00	0.27	1.03
15.40	0.41055	31.43	0.00	6.21	5.76	0.00	1.18	0.36	20.00	3.93	0.25	0.00	0.00	0.00	0.27	1.03
15.30	0.41085	31.44	0.00	6.23	5.78	0.00	1.18	0.36	20.00	3.93	0.25	0.00	0.00	0.00	0.27	1.03
15.20	0.41115	31.44	0.00	6.24	5.80	0.00	1.18	0.35	20.00	3.93	0.25	0.00	0.00	0.00	0.27	1.03
15.10	0.41145	31.45	0.00	6.26	5.82	0.00	1.18	0.35	20.00	3.93	0.25	0.00	0.00	0.00	0.27	1.03
15.00	0.41176	31.45	0.00	6.27	5.84	0.00	1.18	0.35	20.00	3.94	0.25	0.00	0.00	0.00	0.27	1.03
14.90	0.41206	31.46	0.00	6.29	5.86	0.00	1.18	0.35	20.00	3.94	0.25	0.00	0.00	0.00	0.27	1.03
14.80	0.41236	31.46	0.00	6.30	5.88	0.00	1.18	0.35	20.00	3.94	0.25	0.00	0.00	0.00	0.27	1.03
14.70	0.41267	31.47	0.00	6.31	5.90	0.00	1.18	0.35	20.00	3.94	0.25	0.00	0.00	0.00	0.27	1.03
14.60	0.41297	31.47	0.00	6.32	5.91	0.00	1.18	0.35	20.00	3.94	0.25	0.00	0.00	0.00	0.27	1.03

14.50	0.41327	31.48	0.00	6.33	5.93	0.00	1.18	0.35	20.00	3.94	0.25	0.00	0.00	0.00	0.27	1.03
14.40	0.41358	31.48	0.00	6.34	5.95	0.00	1.18	0.35	20.00	3.95	0.25	0.00	0.00	0.00	0.27	1.03
14.30	0.41388	31.49	0.00	6.35	5.97	0.00	1.18	0.35	20.00	3.95	0.25	0.00	0.00	0.00	0.27	1.03
14.20	0.41418	31.49	0.00	6.36	5.99	0.00	1.18	0.35	20.00	3.95	0.25	0.00	0.00	0.00	0.27	1.03
14.10	0.41448	31.50	0.00	6.37	6.01	0.00	1.17	0.35	20.00	3.95	0.25	0.00	0.00	0.00	0.27	1.03
14.00	0.41479	31.50	0.00	6.38	6.03	0.00	1.17	0.34	20.00	3.95	0.25	0.00	0.00	0.00	0.27	1.03
13.90	0.01871	31.51	0.00	6.35	6.04	0.00	1.17	0.34	20.00	1.73	0.25	0.00	0.00	0.00	0.27	1.03
13.80	0.01901	31.51	0.00	6.02	6.41	0.00	1.17	0.33	20.00	1.73	0.25	0.00	0.00	0.00	0.27	1.03
13.70	0.01932	31.52	0.00	5.79	6.74	0.00	1.16	0.31	20.00	1.73	0.25	0.00	0.00	0.00	0.27	1.03
13.60	0.01962	31.52	0.00	5.63	7.04	0.00	1.15	0.30	20.00	1.73	0.25	0.00	0.00	0.00	0.26	1.03
13.50	0.01992	31.52	0.00	5.52	7.31	0.00	1.14	0.29	20.00	1.73	0.25	0.00	0.00	0.00	0.26	1.03
13.40	0.02023	31.53	0.00	5.44	7.55	0.00	1.13	0.28	20.00	1.73	0.25	0.00	0.00	0.00	0.26	1.03
13.30	0.02053	31.53	0.00	5.37	7.77	0.00	1.13	0.27	20.00	1.73	0.25	0.00	0.00	0.00	0.26	1.03
13.20	0.02083	31.54	0.00	5.32	7.97	0.00	1.12	0.26	20.00	1.73	0.25	0.00	0.00	0.00	0.26	1.03
13.10	0.02114	31.54	0.00	5.28	8.15	0.00	1.11	0.25	20.00	1.73	0.25	0.00	0.00	0.00	0.26	1.03
13.00	0.02144	31.55	0.00	5.25	8.31	0.00	1.11	0.24	20.00	1.73	0.25	0.00	0.00	0.00	0.26	1.03
12.90	0.02174	31.55	0.00	5.22	8.46	0.00	1.10	0.24	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
12.80	0.02204	31.56	0.00	5.20	8.60	0.00	1.10	0.23	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
12.70	0.02235	31.56	0.00	5.18	8.72	0.00	1.09	0.22	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
12.60	0.02265	31.57	0.00	5.16	8.84	0.00	1.08	0.22	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
12.50	0.02295	31.57	0.00	5.15	8.94	0.00	1.08	0.21	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
12.40	0.02326	31.58	0.00	5.13	9.03	0.00	1.07	0.21	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
12.30	0.02356	31.58	0.00	5.12	9.12	0.00	1.07	0.21	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
12.20	0.02386	31.59	0.00	5.11	9.20	0.00	1.06	0.20	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
12.10	0.02417	31.59	0.00	5.09	9.27	0.00	1.06	0.20	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
12.00	0.02447	31.60	0.00	5.08	9.34	0.00	1.06	0.19	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
11.90	0.02477	31.60	0.00	5.07	9.40	0.00	1.05	0.19	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
11.80	0.02507	31.61	0.00	5.07	9.46	0.00	1.05	0.19	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
11.70	0.02538	31.61	0.00	5.06	9.51	0.00	1.04	0.19	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
11.60	0.02568	31.62	0.00	5.05	9.56	0.00	1.04	0.18	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
11.50	0.02598	31.62	0.00	5.04	9.60	0.00	1.03	0.18	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
11.40	0.02629	31.63	0.00	5.04	9.64	0.00	1.03	0.18	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
11.30	0.02659	31.63	0.00	5.03	9.68	0.00	1.03	0.18	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
11.20	0.02689	31.64	0.00	5.02	9.71	0.00	1.02	0.18	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
11.10	0.02720	31.64	0.00	5.02	9.75	0.00	1.02	0.17	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
11.00	0.02750	31.65	0.00	5.01	9.78	0.00	1.02	0.17	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
10.90	0.02780	31.65	0.00	5.01	9.80	0.00	1.01	0.17	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
10.80	0.02810	31.66	0.00	5.01	9.83	0.00	1.01	0.17	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
10.70	0.02841	31.66	0.00	5.00	9.85	0.00	1.01	0.17	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
10.60	0.02871	31.67	0.00	5.00	9.87	0.00	1.00	0.17	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
10.50	0.02901	31.67	0.00	4.99	9.89	0.00	1.00	0.17	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
10.40	0.02932	31.68	0.00	4.99	9.91	0.00	1.00	0.17	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
10.30	0.02962	31.68	0.00	4.99	9.93	0.00	0.99	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
10.20	0.02992	31.68	0.00	4.98	9.95	0.00	0.99	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
10.10	0.03023	31.69	0.00	4.98	9.96	0.00	0.99	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
10.00	0.03053	31.69	0.00	4.98	9.98	0.00	0.99	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
9.90	0.03093	31.70	0.00	4.97	10.10	0.00	0.99	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
9.80	0.03124	31.70	0.00	4.97	10.10	0.00	0.98	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.04
9.70	0.03154	31.71	0.00	4.96	10.11	0.00	0.98	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.05
9.60	0.03184	31.71	0.00	4.96	10.11	0.00	0.98	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.05

9.50	0.03214	31.72	0.00	4.95	10.12	0.00	0.98	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.05
9.40	0.03245	31.72	0.00	4.95	10.12	0.00	0.97	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.05
9.30	0.03275	31.73	0.00	4.95	10.13	0.00	0.97	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.05
9.20	0.03305	31.73	0.00	4.95	10.13	0.00	0.97	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.05
9.10	0.03336	31.74	0.00	4.95	10.13	0.00	0.97	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.05
9.00	0.03366	31.74	0.00	4.94	10.13	0.00	0.97	0.16	20.00	1.73	0.26	0.00	0.00	0.00	0.26	1.05
8.90	0.03396	31.75	0.00	4.94	10.14	0.00	0.96	0.16	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
8.80	0.03427	31.75	0.00	4.94	10.14	0.00	0.96	0.16	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
8.70	0.03457	31.76	0.00	4.94	10.14	0.00	0.96	0.16	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
8.60	0.03487	31.76	0.00	4.94	10.14	0.00	0.96	0.16	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
8.50	0.03517	31.77	0.00	4.94	10.15	0.00	0.96	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
8.40	0.03548	31.77	0.00	4.94	10.15	0.00	0.95	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
8.30	0.03595	31.78	0.00	4.93	10.31	0.00	0.95	0.16	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
8.20	0.03625	31.78	0.00	4.93	10.30	0.00	0.95	0.16	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
8.10	0.03656	31.79	0.00	4.92	10.29	0.00	0.95	0.16	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
8.00	0.03686	31.79	0.00	4.92	10.29	0.00	0.95	0.16	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
7.90	0.03716	31.80	0.00	4.92	10.28	0.00	0.95	0.16	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
7.80	0.03747	31.80	0.00	4.91	10.28	0.00	0.95	0.16	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
7.70	0.03777	31.81	0.00	4.91	10.27	0.00	0.94	0.16	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
7.60	0.03807	31.81	0.00	4.91	10.27	0.00	0.94	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
7.50	0.03837	31.82	0.00	4.91	10.26	0.00	0.94	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
7.40	0.03868	31.82	0.00	4.91	10.26	0.00	0.94	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
7.30	0.03898	31.83	0.00	4.91	10.25	0.00	0.94	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
7.20	0.03928	31.83	0.00	4.91	10.25	0.00	0.94	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
7.10	0.03959	31.84	0.00	4.91	10.25	0.00	0.93	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
7.00	0.03989	31.84	0.00	4.91	10.24	0.00	0.93	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
6.90	0.04019	31.84	0.00	4.91	10.24	0.00	0.93	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
6.80	0.04050	31.85	0.00	4.91	10.23	0.00	0.93	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
6.70	0.04080	31.85	0.00	4.91	10.23	0.00	0.93	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.05
6.60	0.04110	31.86	0.00	4.91	10.23	0.00	0.93	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
6.50	0.04141	31.86	0.00	4.91	10.22	0.00	0.93	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
6.40	0.04171	31.87	0.00	4.91	10.22	0.00	0.93	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
6.30	0.04201	31.87	0.00	4.91	10.22	0.00	0.92	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
6.20	0.04231	31.88	0.00	4.91	10.21	0.00	0.92	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
6.10	0.04262	31.88	0.00	4.91	10.21	0.00	0.92	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
6.00	0.04292	31.89	0.00	4.91	10.21	0.00	0.92	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
5.90	0.04322	31.89	0.00	4.91	10.20	0.00	0.92	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
5.80	0.04353	31.90	0.00	4.91	10.20	0.00	0.92	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
5.70	0.04383	31.90	0.00	4.91	10.20	0.00	0.92	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
5.60	0.04413	31.91	0.00	4.91	10.19	0.00	0.92	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
5.50	0.04444	31.91	0.00	4.91	10.19	0.00	0.91	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
5.40	0.04474	31.92	0.00	4.90	10.19	0.00	0.91	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
5.30	0.04504	31.92	0.00	4.90	10.19	0.00	0.91	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
5.20	0.04534	31.93	0.00	4.90	10.18	0.00	0.91	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
5.10	0.04565	31.93	0.00	4.90	10.18	0.00	0.91	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
5.00	0.04595	31.94	0.00	4.90	10.18	0.00	0.91	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
4.90	0.04625	31.94	0.00	4.90	10.18	0.00	0.91	0.15	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
4.80	0.04656	31.95	0.00	4.90	10.17	0.00	0.91	0.14	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
4.70	0.04686	31.95	0.00	4.90	10.17	0.00	0.91	0.14	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
4.60	0.04716	31.96	0.00	4.90	10.17	0.00	0.91	0.14	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06

4.50	0.04747	31.96	0.00	4.90	10.17	0.00	0.90	0.14	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
4.40	0.04777	31.97	0.00	4.90	10.16	0.00	0.90	0.14	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
4.30	0.04807	31.97	0.00	4.90	10.16	0.00	0.90	0.14	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
4.20	0.04837	31.98	0.00	4.90	10.16	0.00	0.90	0.14	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
4.10	0.04868	31.98	0.00	4.90	10.16	0.00	0.90	0.14	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
4.00	0.04898	31.99	0.00	4.90	10.16	0.00	0.90	0.14	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
3.90	0.04928	31.99	0.00	4.90	10.15	0.00	0.90	0.14	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
3.80	0.04959	32.00	0.00	4.90	10.15	0.00	0.90	0.14	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
3.70	0.04989	32.00	0.00	4.90	10.15	0.00	0.90	0.14	20.00	1.74	0.26	0.00	0.00	0.00	0.26	1.06
3.60	0.44589	32.00	0.00	4.10	6.89	0.00	1.05	0.30	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
3.50	0.44589	32.00	0.00	4.19	7.10	0.00	1.04	0.29	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
3.40	0.44589	32.00	0.00	4.26	7.30	0.00	1.04	0.29	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
3.30	0.44589	32.00	0.00	4.31	7.49	0.00	1.03	0.28	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
3.20	0.44589	32.00	0.00	4.35	7.67	0.00	1.03	0.27	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
3.10	0.44589	32.00	0.00	4.38	7.85	0.00	1.03	0.27	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
3.00	0.44589	32.00	0.00	4.41	8.02	0.00	1.02	0.26	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
2.90	0.44589	32.00	0.00	4.42	8.19	0.00	1.02	0.25	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
2.80	0.44589	32.00	0.00	4.43	8.35	0.00	1.01	0.25	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
2.70	0.44589	32.00	0.00	4.43	8.50	0.00	1.01	0.24	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
2.60	0.44589	32.00	0.00	4.43	8.65	0.00	1.01	0.24	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
2.50	0.44589	32.00	0.00	4.42	8.79	0.00	1.00	0.23	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
2.40	0.44589	32.00	0.00	4.41	8.92	0.00	1.00	0.23	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
2.30	0.44589	32.00	0.00	4.40	9.05	0.00	0.99	0.22	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
2.20	0.44589	32.00	0.00	4.39	9.18	0.00	0.99	0.22	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
2.10	0.44589	32.00	0.00	4.37	9.30	0.00	0.99	0.21	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
2.00	0.44589	32.00	0.00	4.36	9.42	0.00	0.98	0.21	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
1.90	0.44589	32.00	0.00	4.34	9.53	0.00	0.98	0.20	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
1.80	0.44589	32.00	0.00	4.32	9.64	0.00	0.98	0.20	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
1.70	0.44589	32.00	0.00	4.30	9.74	0.00	0.97	0.20	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
1.60	0.44589	32.00	0.00	4.28	9.84	0.00	0.97	0.19	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
1.50	0.44589	32.00	0.00	4.26	9.93	0.00	0.96	0.19	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
1.40	0.44589	32.00	0.00	4.24	10.03	0.00	0.96	0.19	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
1.30	0.44589	32.00	0.00	4.22	10.11	0.00	0.96	0.18	20.00	0.97	0.26	0.00	0.00	0.00	0.26	1.06
1.20	0.44589	32.00	0.00	4.20	10.20	0.00	0.95	0.18	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
1.10	0.44589	32.00	0.00	4.18	10.28	0.00	0.95	0.18	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
1.00	0.44589	32.00	0.00	4.16	10.36	0.00	0.95	0.17	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
0.90	0.44589	32.00	0.00	4.14	10.43	0.00	0.94	0.17	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
0.80	0.44589	32.00	0.00	4.13	10.51	0.00	0.94	0.17	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
0.70	0.44589	32.00	0.00	4.11	10.58	0.00	0.94	0.16	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
0.60	0.44589	32.00	0.00	4.09	10.64	0.00	0.93	0.16	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
0.50	0.44589	32.00	0.00	4.07	10.71	0.00	0.93	0.16	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
0.40	0.44589	32.00	0.00	4.06	10.77	0.00	0.92	0.16	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
0.30	0.44589	32.00	0.00	4.04	10.83	0.00	0.92	0.15	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
0.20	0.44589	32.00	0.00	4.02	10.89	0.00	0.92	0.15	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
0.10	0.44589	32.00	0.00	4.01	10.94	0.00	0.91	0.15	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06
0.00	0.44589	32.00	0.00	3.99	11.00	0.00	0.91	0.15	20.00	0.97	0.26	0.00	0.00	0.00	0.25	1.06

CONDENSED CAPSULE SUMMARY FOR ICWWtoBlue

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	BOD2 NH3	NH3	CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.39600	32.00	0.00	1.39	3.81	0.00	1.14	0.49	20.00								
1.30	0.39600	32.00	0.00	1.82	4.05	0.00	1.13	0.48	20.00	0.62	0.24	0.00	0.00	0.00	0.14	0.97	
1.20	0.39600	32.00	0.00	2.14	4.27	0.00	1.13	0.47	20.00	0.62	0.26	0.00	0.00	0.00	0.20	1.06	
1.10	0.39600	32.00	0.00	2.43	4.48	0.00	1.12	0.46	20.00	0.62	0.26	0.00	0.00	0.00	0.21	1.06	
1.00	0.39600	32.00	0.00	2.68	4.68	0.00	1.12	0.45	20.00	0.62	0.26	0.00	0.00	0.00	0.22	1.06	
0.90	0.39600	32.00	0.00	2.89	4.87	0.00	1.11	0.43	20.00	0.62	0.26	0.00	0.00	0.00	0.23	1.06	
0.80	0.39600	32.00	0.00	3.08	5.05	0.00	1.11	0.42	20.00	0.62	0.26	0.00	0.00	0.00	0.23	1.06	
0.70	0.39600	32.00	0.00	3.24	5.22	0.00	1.10	0.41	20.00	0.62	0.26	0.00	0.00	0.00	0.24	1.06	
0.60	0.39600	32.00	0.00	3.38	5.39	0.00	1.10	0.40	20.00	0.62	0.26	0.00	0.00	0.00	0.24	1.06	
0.50	0.39600	32.00	0.00	3.50	5.54	0.00	1.09	0.38	20.00	0.62	0.26	0.00	0.00	0.00	0.24	1.06	
0.40	0.39600	32.00	0.00	3.60	5.69	0.00	1.09	0.37	20.00	0.62	0.26	0.00	0.00	0.00	0.24	1.06	
0.30	0.39600	32.00	0.00	3.69	5.84	0.00	1.08	0.36	20.00	0.62	0.26	0.00	0.00	0.00	0.25	1.06	
0.20	0.39600	32.00	0.00	3.76	5.98	0.00	1.08	0.35	20.00	0.62	0.26	0.00	0.00	0.00	0.25	1.06	
0.10	0.39600	32.00	0.00	3.83	6.11	0.00	1.07	0.34	20.00	0.62	0.26	0.00	0.00	0.00	0.25	1.06	
0.00	0.39600	32.00	0.00	3.88	6.23	0.00	1.07	0.33	20.00	0.62	0.26	0.00	0.00	0.00	0.25	1.06	

EXPANDED CAPSULE SUMMARY FOR BayouBlue#1

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	WIDTH	VELO	VELO	SAT	DO RATE	REAER DECA	BOD1 SETT	BOD1 DECA	BOD2 SETT	BOD2 DECA	NH3 SOD
		km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L		m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
	HDWTR		0.396	31.2	0.0	1.7	4.7	0.0	1.2	0.4	20.0													
1	BB 1	20.10	0.396	31.2	0.0	1.9	4.7	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.079	0.079	7.4	3.845	0.24	0.00	0.00	0.00	0.18	0.99
2	BB 1	20.00	0.397	31.2	0.0	2.2	4.7	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.079	0.079	7.4	3.847	0.25	0.00	0.00	0.00	0.20	1.01
3	BB 1	19.90	0.397	31.2	0.0	2.4	4.8	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.079	0.079	7.4	3.849	0.25	0.00	0.00	0.00	0.20	1.01
4	BB 1	19.80	0.397	31.2	0.0	2.7	4.8	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.079	0.079	7.4	3.850	0.25	0.00	0.00	0.00	0.21	1.01
5	BB 1	19.70	0.398	31.2	0.0	2.9	4.8	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.852	0.25	0.00	0.00	0.00	0.22	1.01
6	BB 1	19.60	0.398	31.2	0.0	3.1	4.8	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.854	0.25	0.00	0.00	0.00	0.22	1.01
7	BB 1	19.50	0.398	31.2	0.0	3.3	4.9	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.856	0.25	0.00	0.00	0.00	0.23	1.01
8	BB 1	19.40	0.398	31.2	0.0	3.4	4.9	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.857	0.25	0.00	0.00	0.00	0.23	1.01
9	BB 1	19.30	0.399	31.2	0.0	3.6	4.9	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.859	0.25	0.00	0.00	0.00	0.23	1.02
10	BB 1	19.20	0.399	31.2	0.0	3.8	4.9	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.861	0.25	0.00	0.00	0.00	0.24	1.02
11	BB 1	19.10	0.399	31.3	0.0	3.9	5.0	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.863	0.25	0.00	0.00	0.00	0.24	1.02
12	BB 1	19.00	0.400	31.3	0.0	4.1	5.0	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.865	0.25	0.00	0.00	0.00	0.24	1.02
13	BB 1	18.90	0.400	31.3	0.0	4.2	5.0	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.866	0.25	0.00	0.00	0.00	0.24	1.02
14	BB 1	18.80	0.400	31.3	0.0	4.3	5.0	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.868	0.25	0.00	0.00	0.00	0.24	1.02
15	BB 1	18.70	0.401	31.3	0.0	4.5	5.1	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.870	0.25	0.00	0.00	0.00	0.25	1.02
16	BB 1	18.60	0.401	31.3	0.0	4.6	5.1	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.872	0.25	0.00	0.00	0.00	0.25	1.02
17	BB 1	18.50	0.401	31.3	0.0	4.7	5.1	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.873	0.25	0.00	0.00	0.00	0.25	1.02
18	BB 1	18.40	0.401	31.3	0.0	4.8	5.1	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.875	0.25	0.00	0.00	0.00	0.25	1.02
19	BB 1	18.30	0.402	31.3	0.0	4.9	5.1	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.877	0.25	0.00	0.00	0.00	0.25	1.02
20	BB 1	18.20	0.402	31.3	0.0	5.0	5.2	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.879	0.25	0.00	0.00	0.00	0.25	1.02
21	BB 1	18.10	0.402	31.3	0.0	5.1	5.2	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.080	0.080	7.4	3.881	0.25	0.00	0.00	0.00	0.25	1.02
22	BB 1	18.00	0.403	31.3	0.0	5.1	5.2	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.882	0.25	0.00	0.00	0.00	0.26	1.02
23	BB 1	17.90	0.403	31.3	0.0	5.2	5.2	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.884	0.25	0.00	0.00	0.00	0.26	1.02

24	BB	1	17.80	0.403	31.3	0.0	5.3	5.3	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.886	0.25	0.00	0.00	0.00	0.26	1.02
25	BB	1	17.70	0.404	31.3	0.0	5.4	5.3	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.888	0.25	0.00	0.00	0.00	0.26	1.02
26	BB	1	17.60	0.404	31.3	0.0	5.4	5.3	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.889	0.25	0.00	0.00	0.00	0.26	1.02
27	BB	1	17.50	0.404	31.3	0.0	5.5	5.3	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.891	0.25	0.00	0.00	0.00	0.26	1.02
28	BB	1	17.40	0.404	31.3	0.0	5.5	5.3	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.893	0.25	0.00	0.00	0.00	0.26	1.02
29	BB	1	17.30	0.405	31.3	0.0	5.6	5.4	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.895	0.25	0.00	0.00	0.00	0.26	1.02
30	BB	1	17.20	0.405	31.3	0.0	5.6	5.4	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.897	0.25	0.00	0.00	0.00	0.26	1.02
31	BB	1	17.10	0.405	31.4	0.0	5.7	5.4	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.898	0.25	0.00	0.00	0.00	0.26	1.02
32	BB	1	17.00	0.406	31.4	0.0	5.7	5.4	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.900	0.25	0.00	0.00	0.00	0.26	1.02
33	BB	1	16.90	0.406	31.4	0.0	5.8	5.5	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.902	0.25	0.00	0.00	0.00	0.26	1.02
34	BB	1	16.80	0.406	31.4	0.0	5.8	5.5	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.904	0.25	0.00	0.00	0.00	0.26	1.02
35	BB	1	16.70	0.407	31.4	0.0	5.9	5.5	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.906	0.25	0.00	0.00	0.00	0.26	1.02
36	BB	1	16.60	0.407	31.4	0.0	5.9	5.5	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.907	0.25	0.00	0.00	0.00	0.26	1.02
37	BB	1	16.50	0.407	31.4	0.0	5.9	5.5	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.081	0.081	7.4	3.909	0.25	0.00	0.00	0.00	0.26	1.02
38	BB	1	16.40	0.408	31.4	0.0	6.0	5.6	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.911	0.25	0.00	0.00	0.00	0.26	1.02
39	BB	1	16.30	0.408	31.4	0.0	6.0	5.6	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.913	0.25	0.00	0.00	0.00	0.27	1.02
40	BB	1	16.20	0.408	31.4	0.0	6.0	5.6	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.914	0.25	0.00	0.00	0.00	0.27	1.02
41	BB	1	16.10	0.408	31.4	0.0	6.1	5.6	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.916	0.25	0.00	0.00	0.00	0.27	1.02
42	BB	1	16.00	0.409	31.4	0.0	6.1	5.6	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.918	0.25	0.00	0.00	0.00	0.27	1.03
43	BB	1	15.90	0.409	31.4	0.0	6.1	5.7	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.920	0.25	0.00	0.00	0.00	0.27	1.03
44	BB	1	15.80	0.409	31.4	0.0	6.1	5.7	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.922	0.25	0.00	0.00	0.00	0.27	1.03
45	BB	1	15.70	0.410	31.4	0.0	6.2	5.7	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.923	0.25	0.00	0.00	0.00	0.27	1.03
46	BB	1	15.60	0.410	31.4	0.0	6.2	5.7	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.925	0.25	0.00	0.00	0.00	0.27	1.03
47	BB	1	15.50	0.410	31.4	0.0	6.2	5.7	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.927	0.25	0.00	0.00	0.00	0.27	1.03
48	BB	1	15.40	0.411	31.4	0.0	6.2	5.8	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.929	0.25	0.00	0.00	0.00	0.27	1.03
49	BB	1	15.30	0.411	31.4	0.0	6.2	5.8	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.930	0.25	0.00	0.00	0.00	0.27	1.03
50	BB	1	15.20	0.411	31.4	0.0	6.2	5.8	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.932	0.25	0.00	0.00	0.00	0.27	1.03
51	BB	1	15.10	0.411	31.4	0.0	6.3	5.8	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.934	0.25	0.00	0.00	0.00	0.27	1.03
52	BB	1	15.00	0.412	31.5	0.0	6.3	5.8	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.936	0.25	0.00	0.00	0.00	0.27	1.03
53	BB	1	14.90	0.412	31.5	0.0	6.3	5.9	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.937	0.25	0.00	0.00	0.00	0.27	1.03
54	BB	1	14.80	0.412	31.5	0.0	6.3	5.9	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.082	0.082	7.4	3.939	0.25	0.00	0.00	0.00	0.27	1.03
55	BB	1	14.70	0.413	31.5	0.0	6.3	5.9	0.0	1.2	0.4	20.0	0.0	0.50	10.0	0.083	0.083	7.4	3.941	0.25	0.00	0.00	0.00	0.27	1.03
56	BB	1	14.60	0.413	31.5	0.0	6.3	5.9	0.0	1.2	0.3	20.0	0.0	0.50	10.0	0.083	0.083	7.4	3.943	0.25	0.00	0.00	0.00	0.27	1.03
57	BB	1	14.50	0.413	31.5	0.0	6.3	5.9	0.0	1.2	0.3	20.0	0.0	0.50	10.0	0.083	0.083	7.4	3.945	0.25	0.00	0.00	0.00	0.27	1.03
58	BB	1	14.40	0.414	31.5	0.0	6.3	6.0	0.0	1.2	0.3	20.0	0.0	0.50	10.0	0.083	0.083	7.4	3.946	0.25	0.00	0.00	0.00	0.27	1.03
59	BB	1	14.30	0.414	31.5	0.0	6.4	6.0	0.0	1.2	0.3	20.0	0.0	0.50	10.0	0.083	0.083	7.4	3.948	0.25	0.00	0.00	0.00	0.27	1.03
60	BB	1	14.20	0.414	31.5	0.0	6.4	6.0	0.0	1.2	0.3	20.0	0.0	0.50	10.0	0.083	0.083	7.4	3.950	0.25	0.00	0.00	0.00	0.27	1.03
61	BB	1	14.10	0.414	31.5	0.0	6.4	6.0	0.0	1.2	0.3	20.0	0.0	0.50	10.0	0.083	0.083	7.4	3.952	0.25	0.00	0.00	0.00	0.27	1.03
62	BB	1	14.00	0.415	31.5	0.0	6.4	6.0	0.0	1.2	0.3	20.0	0.0	0.50	10.0	0.083	0.083	7.4	3.953	0.25	0.00	0.00	0.00	0.27	1.03
DIVERSION # 063 (toICWW) LEAVES HERE																									
63	BB	1	13.90	0.019	31.5	0.0	6.4	6.0	0.0	1.2	0.3	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.728	0.25	0.00	0.00	0.00	0.27	1.03
64	BB	1	13.80	0.019	31.5	0.0	6.0	6.4	0.0	1.2	0.3	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.728	0.25	0.00	0.00	0.00	0.27	1.03
65	BB	1	13.70	0.019	31.5	0.0	5.8	6.7	0.0	1.2	0.3	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.728	0.25	0.00	0.00	0.00	0.27	1.03
66	BB	1	13.60	0.020	31.5	0.0	5.6	7.0	0.0	1.1	0.3	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.728	0.25	0.00	0.00	0.00	0.26	1.03
67	BB	1	13.50	0.020	31.5	0.0	5.5	7.3	0.0	1.1	0.3	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.729	0.25	0.00	0.00	0.00	0.26	1.03
68	BB	1	13.40	0.020	31.5	0.0	5.4	7.6	0.0	1.1	0.3	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.729	0.25	0.00	0.00	0.00	0.26	1.03
69	BB	1	13.30	0.021	31.5	0.0	5.4	7.8	0.0	1.1	0.3	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.729	0.25	0.00	0.00	0.00	0.26	1.03
70	BB	1	13.20	0.021	31.5	0.0	5.3	8.0	0.0	1.1	0.3	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.729	0.25	0.00	0.00	0.00	0.26	1.03
71	BB	1	13.10	0.021	31.5	0.0	5.3	8.2	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.729	0.25	0.00	0.00	0.00	0.26	1.03
72	BB	1	13.00	0.021	31.5	0.0	5.3	8.3	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.729	0.25	0.00	0.00	0.00	0.26	1.03

EXPANDED CAPSULE SUMMARY FOR BayouBlue#1

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m²/s	ADVEC CHLA m	MEAN DISP m	DO DEPTH m/s	REAER m/s	BOD1 mg/L	BOD1 WIDTH 1/da	BOD2 VELO 1/da	BOD2 VELO 1/da	SAT 1/da	NH3 RATE 1/da	DECA SETT 1/da	DECA SETT 1/da	DECA 1/da	SOD g/m²/d
73	BB 1	12.90	0.022	31.6	0.0	5.2	8.5	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.729	0.26	0.00	0.00	0.00	0.26	1.04
74	BB 1	12.80	0.022	31.6	0.0	5.2	8.6	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
75	BB 1	12.70	0.022	31.6	0.0	5.2	8.7	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.004	0.004	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
76	BB 1	12.60	0.023	31.6	0.0	5.2	8.8	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
77	BB 1	12.50	0.023	31.6	0.0	5.1	8.9	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
78	BB 1	12.40	0.023	31.6	0.0	5.1	9.0	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
79	BB 1	12.30	0.024	31.6	0.0	5.1	9.1	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
80	BB 1	12.20	0.024	31.6	0.0	5.1	9.2	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
81	BB 1	12.10	0.024	31.6	0.0	5.1	9.3	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
82	BB 1	12.00	0.024	31.6	0.0	5.1	9.3	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
83	BB 1	11.90	0.025	31.6	0.0	5.1	9.4	0.0	1.1	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
84	BB 1	11.80	0.025	31.6	0.0	5.1	9.5	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
85	BB 1	11.70	0.025	31.6	0.0	5.1	9.5	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
86	BB 1	11.60	0.026	31.6	0.0	5.0	9.6	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
87	BB 1	11.50	0.026	31.6	0.0	5.0	9.6	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
88	BB 1	11.40	0.026	31.6	0.0	5.0	9.6	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.732	0.26	0.00	0.00	0.00	0.26	1.04
89	BB 1	11.30	0.027	31.6	0.0	5.0	9.7	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.4	1.732	0.26	0.00	0.00	0.00	0.26	1.04
90	BB 1	11.20	0.027	31.6	0.0	5.0	9.7	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.3	1.732	0.26	0.00	0.00	0.00	0.26	1.04
91	BB 1	11.10	0.027	31.6	0.0	5.0	9.7	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.3	1.732	0.26	0.00	0.00	0.00	0.26	1.04
92	BB 1	11.00	0.027	31.6	0.0	5.0	9.8	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.005	0.005	7.3	1.732	0.26	0.00	0.00	0.00	0.26	1.04
93	BB 1	10.90	0.028	31.7	0.0	5.0	9.8	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.732	0.26	0.00	0.00	0.00	0.26	1.04
94	BB 1	10.80	0.028	31.7	0.0	5.0	9.8	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.732	0.26	0.00	0.00	0.00	0.26	1.04
95	BB 1	10.70	0.028	31.7	0.0	5.0	9.9	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
96	BB 1	10.60	0.029	31.7	0.0	5.0	9.9	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
97	BB 1	10.50	0.029	31.7	0.0	5.0	9.9	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
98	BB 1	10.40	0.029	31.7	0.0	5.0	9.9	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
99	BB 1	10.30	0.030	31.7	0.0	5.0	9.9	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
100	BB 1	10.20	0.030	31.7	0.0	5.0	9.9	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
101	BB 1	10.10	0.030	31.7	0.0	5.0	10.0	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
102	BB 1	10.00	0.031	31.7	0.0	5.0	10.0	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.04
WASTELOAD # 103 (LAG531463) ENTERS HERE																								
103	BB 1	9.90	0.031	31.7	0.0	5.0	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.04
104	BB 1	9.80	0.031	31.7	0.0	5.0	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.04
105	BB 1	9.70	0.032	31.7	0.0	5.0	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.05
106	BB 1	9.60	0.032	31.7	0.0	5.0	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.05
107	BB 1	9.50	0.032	31.7	0.0	5.0	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.05
108	BB 1	9.40	0.032	31.7	0.0	5.0	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.05
109	BB 1	9.30	0.033	31.7	0.0	4.9	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
110	BB 1	9.20	0.033	31.7	0.0	4.9	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
111	BB 1	9.10	0.033	31.7	0.0	4.9	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
112	BB 1	9.00	0.034	31.7	0.0	4.9	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
113	BB 1	8.90	0.034	31.7	0.0	4.9	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
114	BB 1	8.80	0.034	31.8	0.0	4.9	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
115	BB 1	8.70	0.035	31.8	0.0	4.9	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05

116	BB	1	8.60	0.035	31.8	0.0	4.9	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
117	BB	1	8.50	0.035	31.8	0.0	4.9	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
118	BB	1	8.40	0.035	31.8	0.0	4.9	10.1	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05

WASTELOAD # 119 (LA0084077) ENTERS HERE

119	BB	1	8.30	0.036	31.8	0.0	4.9	10.3	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
120	BB	1	8.20	0.036	31.8	0.0	4.9	10.3	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
121	BB	1	8.10	0.037	31.8	0.0	4.9	10.3	0.0	1.0	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
122	BB	1	8.00	0.037	31.8	0.0	4.9	10.3	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
123	BB	1	7.90	0.037	31.8	0.0	4.9	10.3	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
124	BB	1	7.80	0.037	31.8	0.0	4.9	10.3	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.007	0.007	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
125	BB	1	7.70	0.038	31.8	0.0	4.9	10.3	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
126	BB	1	7.60	0.038	31.8	0.0	4.9	10.3	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
127	BB	1	7.50	0.038	31.8	0.0	4.9	10.3	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
128	BB	1	7.40	0.039	31.8	0.0	4.9	10.3	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
129	BB	1	7.30	0.039	31.8	0.0	4.9	10.3	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
130	BB	1	7.20	0.039	31.8	0.0	4.9	10.2	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.05
131	BB	1	7.10	0.040	31.8	0.0	4.9	10.2	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.05
132	BB	1	7.00	0.040	31.8	0.0	4.9	10.2	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.05
133	BB	1	6.90	0.040	31.8	0.0	4.9	10.2	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.05
134	BB	1	6.80	0.040	31.8	0.0	4.9	10.2	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.05
135	BB	1	6.70	0.041	31.9	0.0	4.9	10.2	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.05
136	BB	1	6.60	0.041	31.9	0.0	4.9	10.2	0.0	0.9	0.2	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.06
137	BB	1	6.50	0.041	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
138	BB	1	6.40	0.042	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
139	BB	1	6.30	0.042	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
140	BB	1	6.20	0.042	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.008	0.008	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
141	BB	1	6.10	0.043	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
142	BB	1	6.00	0.043	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
143	BB	1	5.90	0.043	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
144	BB	1	5.80	0.044	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06

EXPANDED CAPSULE SUMMARY FOR BayouBlue#1

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN VELO	DO SAT	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
145	BB	1	5.70	0.044	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06
146	BB	1	5.60	0.044	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06
147	BB	1	5.50	0.044	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06
148	BB	1	5.40	0.045	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06
149	BB	1	5.30	0.045	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06
150	BB	1	5.20	0.045	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06
151	BB	1	5.10	0.046	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
152	BB	1	5.00	0.046	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
153	BB	1	4.90	0.046	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
154	BB	1	4.80	0.047	31.9	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
155	BB	1	4.70	0.047	32.0	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
156	BB	1	4.60	0.047	32.0	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
157	BB	1	4.50	0.047	32.0	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06

158	BB	1	4.40	0.048	32.0	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
159	BB	1	4.30	0.048	32.0	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
160	BB	1	4.20	0.048	32.0	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
161	BB	1	4.10	0.049	32.0	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
162	BB	1	4.00	0.049	32.0	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
163	BB	1	3.90	0.049	32.0	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
164	BB	1	3.80	0.050	32.0	0.0	4.9	10.2	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
165	BB	1	3.70	0.050	32.0	0.0	4.9	10.1	0.0	0.9	0.1	20.0	0.0	0.50	10.0	0.010	0.010	7.3	1.743	0.26	0.00	0.00	0.00	0.26	1.06
TRIBUTARY # 166 (ICWWtoBlue) ENTERS HERE																									
180	BB	3	3.60	0.446	32.0	0.0	4.1	6.9	0.0	1.0	0.3	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
181	BB	3	3.50	0.446	32.0	0.0	4.2	7.1	0.0	1.0	0.3	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
182	BB	3	3.40	0.446	32.0	0.0	4.3	7.3	0.0	1.0	0.3	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
183	BB	3	3.30	0.446	32.0	0.0	4.3	7.5	0.0	1.0	0.3	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
184	BB	3	3.20	0.446	32.0	0.0	4.4	7.7	0.0	1.0	0.3	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
185	BB	3	3.10	0.446	32.0	0.0	4.4	7.9	0.0	1.0	0.3	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
186	BB	3	3.00	0.446	32.0	0.0	4.4	8.0	0.0	1.0	0.3	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
187	BB	3	2.90	0.446	32.0	0.0	4.4	8.2	0.0	1.0	0.3	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
188	BB	3	2.80	0.446	32.0	0.0	4.4	8.3	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
189	BB	3	2.70	0.446	32.0	0.0	4.4	8.5	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
190	BB	3	2.60	0.446	32.0	0.0	4.4	8.6	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
191	BB	3	2.50	0.446	32.0	0.0	4.4	8.8	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
192	BB	3	2.40	0.446	32.0	0.0	4.4	8.9	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
193	BB	3	2.30	0.446	32.0	0.0	4.4	9.1	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
194	BB	3	2.20	0.446	32.0	0.0	4.4	9.2	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
195	BB	3	2.10	0.446	32.0	0.0	4.4	9.3	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
196	BB	3	2.00	0.446	32.0	0.0	4.4	9.4	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
197	BB	3	1.90	0.446	32.0	0.0	4.3	9.5	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
198	BB	3	1.80	0.446	32.0	0.0	4.3	9.6	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
199	BB	3	1.70	0.446	32.0	0.0	4.3	9.7	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
200	BB	3	1.60	0.446	32.0	0.0	4.3	9.8	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
201	BB	3	1.50	0.446	32.0	0.0	4.3	9.9	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
202	BB	3	1.40	0.446	32.0	0.0	4.2	10.0	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
203	BB	3	1.30	0.446	32.0	0.0	4.2	10.1	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
204	BB	3	1.20	0.446	32.0	0.0	4.2	10.2	0.0	1.0	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
205	BB	3	1.10	0.446	32.0	0.0	4.2	10.3	0.0	0.9	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
206	BB	3	1.00	0.446	32.0	0.0	4.2	10.4	0.0	0.9	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
207	BB	3	0.90	0.446	32.0	0.0	4.1	10.4	0.0	0.9	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
208	BB	3	0.80	0.446	32.0	0.0	4.1	10.5	0.0	0.9	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
209	BB	3	0.70	0.446	32.0	0.0	4.1	10.6	0.0	0.9	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
210	BB	3	0.60	0.446	32.0	0.0	4.1	10.6	0.0	0.9	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
211	BB	3	0.50	0.446	32.0	0.0	4.1	10.7	0.0	0.9	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
212	BB	3	0.40	0.446	32.0	0.0	4.1	10.8	0.0	0.9	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
213	BB	3	0.30	0.446	32.0	0.0	4.0	10.8	0.0	0.9	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
214	BB	3	0.20	0.446	32.0	0.0	4.0	10.9	0.0	0.9	0.2	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
215	BB	3	0.10	0.446	32.0	0.0	4.0	10.9	0.0	0.9	0.1	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
216	BB	3	0.00	0.446	32.0	0.0	4.0	11.0	0.0	0.9	0.1	20.0	0.0	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06

EXPANDED CAPSULE SUMMARY FOR ICWWtoBlue

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N µg/L	NH3 m²/s	CHLA m	DISP m	ADVEC DEPTH m/s	MEAN WIDTH m/s	DO mg/L	REAER VELO 1/da	BOD1 VELO 1/da	BOD1 SAT 1/da	BOD2 RATE 1/da	BOD2 DECA 1/da	NH3 SETT 1/da	NH3 DECA 1/da	SOD SETT g/m²/d	SOD DECA
166	IC 2	1.30	0.396	32.0	0.0	1.8	4.1	0.0	1.1	0.5	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.24	0.00	0.00	0.00	0.14	0.97
167	IC 2	1.20	0.396	32.0	0.0	2.1	4.3	0.0	1.1	0.5	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.20	1.06
168	IC 2	1.10	0.396	32.0	0.0	2.4	4.5	0.0	1.1	0.5	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.21	1.06
169	IC 2	1.00	0.396	32.0	0.0	2.7	4.7	0.0	1.1	0.4	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.22	1.06
170	IC 2	0.90	0.396	32.0	0.0	2.9	4.9	0.0	1.1	0.4	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.23	1.06
171	IC 2	0.80	0.396	32.0	0.0	3.1	5.0	0.0	1.1	0.4	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.23	1.06
172	IC 2	0.70	0.396	32.0	0.0	3.2	5.2	0.0	1.1	0.4	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.24	1.06
173	IC 2	0.60	0.396	32.0	0.0	3.4	5.4	0.0	1.1	0.4	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.24	1.06
174	IC 2	0.50	0.396	32.0	0.0	3.5	5.5	0.0	1.1	0.4	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.24	1.06
175	IC 2	0.40	0.396	32.0	0.0	3.6	5.7	0.0	1.1	0.4	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.24	1.06
176	IC 2	0.30	0.396	32.0	0.0	3.7	5.8	0.0	1.1	0.4	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.06
177	IC 2	0.20	0.396	32.0	0.0	3.8	6.0	0.0	1.1	0.4	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.06
178	IC 2	0.10	0.396	32.0	0.0	3.8	6.1	0.0	1.1	0.3	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.06
179	IC 2	0.00	0.396	32.0	0.0	3.9	6.2	0.0	1.1	0.3	20.0	0.0	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.06

SPECIAL REPORT: BayouBlue#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 #/100mL	MACRO *	COLI	NCM
1	20.100	31.20	0.0	0.0	0.0	1.95	4.72	0.00	4.72	0.00	1.20	0.40	0.00	1.60	0.00	20.0	0.0	0.	0.00
2	20.000	31.21	0.0	0.0	0.0	2.20	4.74	0.00	4.74	0.00	1.20	0.40	0.00	1.60	0.00	20.0	0.0	0.	0.00
3	19.900	31.21	0.0	0.0	0.0	2.44	4.77	0.00	4.77	0.00	1.20	0.40	0.00	1.60	0.00	20.0	0.0	0.	0.00
4	19.800	31.22	0.0	0.0	0.0	2.67	4.79	0.00	4.79	0.00	1.20	0.40	0.00	1.60	0.00	20.0	0.0	0.	0.00
5	19.700	31.22	0.0	0.0	0.0	2.88	4.82	0.00	4.82	0.00	1.20	0.40	0.00	1.59	0.00	20.0	0.0	0.	0.00
6	19.600	31.23	0.0	0.0	0.0	3.08	4.84	0.00	4.84	0.00	1.20	0.40	0.00	1.59	0.00	20.0	0.0	0.	0.00
7	19.500	31.23	0.0	0.0	0.0	3.27	4.86	0.00	4.86	0.00	1.20	0.39	0.00	1.59	0.00	20.0	0.0	0.	0.00
8	19.400	31.24	0.0	0.0	0.0	3.45	4.89	0.00	4.89	0.00	1.20	0.39	0.00	1.59	0.00	20.0	0.0	0.	0.00
9	19.300	31.24	0.0	0.0	0.0	3.62	4.91	0.00	4.91	0.00	1.20	0.39	0.00	1.59	0.00	20.0	0.0	0.	0.00
10	19.200	31.25	0.0	0.0	0.0	3.78	4.94	0.00	4.94	0.00	1.20	0.39	0.00	1.59	0.00	20.0	0.0	0.	0.00
11	19.100	31.25	0.0	0.0	0.0	3.93	4.96	0.00	4.96	0.00	1.20	0.39	0.00	1.59	0.00	20.0	0.0	0.	0.00
12	19.000	31.26	0.0	0.0	0.0	4.08	4.98	0.00	4.98	0.00	1.19	0.39	0.00	1.59	0.00	20.0	0.0	0.	0.00
13	18.900	31.26	0.0	0.0	0.0	4.21	5.01	0.00	5.01	0.00	1.19	0.39	0.00	1.58	0.00	20.0	0.0	0.	0.00
14	18.800	31.27	0.0	0.0	0.0	4.34	5.03	0.00	5.03	0.00	1.19	0.39	0.00	1.58	0.00	20.0	0.0	0.	0.00
15	18.700	31.27	0.0	0.0	0.0	4.46	5.05	0.00	5.05	0.00	1.19	0.39	0.00	1.58	0.00	20.0	0.0	0.	0.00
16	18.600	31.28	0.0	0.0	0.0	4.57	5.08	0.00	5.08	0.00	1.19	0.39	0.00	1.58	0.00	20.0	0.0	0.	0.00
17	18.500	31.28	0.0	0.0	0.0	4.68	5.10	0.00	5.10	0.00	1.19	0.39	0.00	1.58	0.00	20.0	0.0	0.	0.00
18	18.400	31.29	0.0	0.0	0.0	4.78	5.12	0.00	5.12	0.00	1.19	0.38	0.00	1.58	0.00	20.0	0.0	0.	0.00
19	18.300	31.29	0.0	0.0	0.0	4.88	5.15	0.00	5.15	0.00	1.19	0.38	0.00	1.58	0.00	20.0	0.0	0.	0.00
20	18.200	31.30	0.0	0.0	0.0	4.97	5.17	0.00	5.17	0.00	1.19	0.38	0.00	1.58	0.00	20.0	0.0	0.	0.00
21	18.100	31.30	0.0	0.0	0.0	5.06	5.19	0.00	5.19	0.00	1.19	0.38	0.00	1.57	0.00	20.0	0.0	0.	0.00
22	18.000	31.31	0.0	0.0	0.0	5.14	5.21	0.00	5.21	0.00	1.19	0.38	0.00	1.57	0.00	20.0	0.0	0.	0.00

23	17.900	31.31	0.0	0.0	0.0	5.22	5.24	0.00	5.24	0.00	1.19	0.38	0.00	1.57	0.00	20.0	0.0	0.	0.00
24	17.800	31.32	0.0	0.0	0.0	5.29	5.26	0.00	5.26	0.00	1.19	0.38	0.00	1.57	0.00	20.0	0.0	0.	0.00
25	17.700	31.32	0.0	0.0	0.0	5.36	5.28	0.00	5.28	0.00	1.19	0.38	0.00	1.57	0.00	20.0	0.0	0.	0.00
26	17.600	31.33	0.0	0.0	0.0	5.42	5.30	0.00	5.30	0.00	1.19	0.38	0.00	1.57	0.00	20.0	0.0	0.	0.00
27	17.500	31.33	0.0	0.0	0.0	5.48	5.33	0.00	5.33	0.00	1.19	0.38	0.00	1.57	0.00	20.0	0.0	0.	0.00
28	17.400	31.34	0.0	0.0	0.0	5.54	5.35	0.00	5.35	0.00	1.19	0.38	0.00	1.57	0.00	20.0	0.0	0.	0.00
29	17.300	31.34	0.0	0.0	0.0	5.60	5.37	0.00	5.37	0.00	1.19	0.37	0.00	1.57	0.00	20.0	0.0	0.	0.00
30	17.200	31.35	0.0	0.0	0.0	5.65	5.39	0.00	5.39	0.00	1.19	0.37	0.00	1.56	0.00	20.0	0.0	0.	0.00
31	17.100	31.35	0.0	0.0	0.0	5.70	5.41	0.00	5.41	0.00	1.19	0.37	0.00	1.56	0.00	20.0	0.0	0.	0.00
32	17.000	31.36	0.0	0.0	0.0	5.74	5.43	0.00	5.43	0.00	1.19	0.37	0.00	1.56	0.00	20.0	0.0	0.	0.00
33	16.900	31.36	0.0	0.0	0.0	5.79	5.46	0.00	5.46	0.00	1.19	0.37	0.00	1.56	0.00	20.0	0.0	0.	0.00
34	16.800	31.36	0.0	0.0	0.0	5.83	5.48	0.00	5.48	0.00	1.19	0.37	0.00	1.56	0.00	20.0	0.0	0.	0.00
35	16.700	31.37	0.0	0.0	0.0	5.87	5.50	0.00	5.50	0.00	1.19	0.37	0.00	1.56	0.00	20.0	0.0	0.	0.00
36	16.600	31.37	0.0	0.0	0.0	5.90	5.52	0.00	5.52	0.00	1.18	0.37	0.00	1.56	0.00	20.0	0.0	0.	0.00
37	16.500	31.38	0.0	0.0	0.0	5.94	5.54	0.00	5.54	0.00	1.18	0.37	0.00	1.56	0.00	20.0	0.0	0.	0.00
38	16.400	31.38	0.0	0.0	0.0	5.97	5.56	0.00	5.56	0.00	1.18	0.37	0.01	1.55	0.00	20.0	0.0	0.	0.00
39	16.300	31.39	0.0	0.0	0.0	6.00	5.58	0.00	5.58	0.00	1.18	0.36	0.01	1.55	0.00	20.0	0.0	0.	0.00
40	16.200	31.39	0.0	0.0	0.0	6.03	5.60	0.00	5.60	0.00	1.18	0.36	0.01	1.55	0.00	20.0	0.0	0.	0.00
41	16.100	31.40	0.0	0.0	0.0	6.06	5.62	0.00	5.62	0.00	1.18	0.36	0.01	1.55	0.00	20.0	0.0	0.	0.00
42	16.000	31.40	0.0	0.0	0.0	6.08	5.64	0.00	5.64	0.00	1.18	0.36	0.01	1.55	0.00	20.0	0.0	0.	0.00
43	15.900	31.41	0.0	0.0	0.0	6.11	5.66	0.00	5.66	0.00	1.18	0.36	0.01	1.55	0.00	20.0	0.0	0.	0.00
44	15.800	31.41	0.0	0.0	0.0	6.13	5.68	0.00	5.68	0.00	1.18	0.36	0.01	1.55	0.00	20.0	0.0	0.	0.00
45	15.700	31.42	0.0	0.0	0.0	6.15	5.70	0.00	5.70	0.00	1.18	0.36	0.01	1.55	0.00	20.0	0.0	0.	0.00
46	15.600	31.42	0.0	0.0	0.0	6.17	5.72	0.00	5.72	0.00	1.18	0.36	0.01	1.55	0.00	20.0	0.0	0.	0.00
47	15.500	31.43	0.0	0.0	0.0	6.19	5.74	0.00	5.74	0.00	1.18	0.36	0.01	1.54	0.00	20.0	0.0	0.	0.00
48	15.400	31.43	0.0	0.0	0.0	6.21	5.76	0.00	5.76	0.00	1.18	0.36	0.01	1.54	0.00	20.0	0.0	0.	0.00
49	15.300	31.44	0.0	0.0	0.0	6.23	5.78	0.00	5.78	0.00	1.18	0.36	0.01	1.54	0.00	20.0	0.0	0.	0.00
50	15.200	31.44	0.0	0.0	0.0	6.24	5.80	0.00	5.80	0.00	1.18	0.35	0.01	1.54	0.00	20.0	0.0	0.	0.00
51	15.100	31.45	0.0	0.0	0.0	6.26	5.82	0.00	5.82	0.00	1.18	0.35	0.01	1.54	0.00	20.0	0.0	0.	0.00
52	15.000	31.45	0.0	0.0	0.0	6.27	5.84	0.00	5.84	0.00	1.18	0.35	0.01	1.54	0.00	20.0	0.0	0.	0.00
53	14.900	31.46	0.0	0.0	0.0	6.29	5.86	0.00	5.86	0.00	1.18	0.35	0.01	1.54	0.00	20.0	0.0	0.	0.00
54	14.800	31.46	0.0	0.0	0.0	6.30	5.88	0.00	5.88	0.00	1.18	0.35	0.01	1.54	0.00	20.0	0.0	0.	0.00
55	14.700	31.47	0.0	0.0	0.0	6.31	5.90	0.00	5.90	0.00	1.18	0.35	0.01	1.54	0.00	20.0	0.0	0.	0.00
56	14.600	31.47	0.0	0.0	0.0	6.32	5.91	0.00	5.91	0.00	1.18	0.35	0.01	1.53	0.00	20.0	0.0	0.	0.00
57	14.500	31.48	0.0	0.0	0.0	6.33	5.93	0.00	5.93	0.00	1.18	0.35	0.01	1.53	0.00	20.0	0.0	0.	0.00
58	14.400	31.48	0.0	0.0	0.0	6.34	5.95	0.00	5.95	0.00	1.18	0.35	0.01	1.53	0.00	20.0	0.0	0.	0.00
59	14.300	31.49	0.0	0.0	0.0	6.35	5.97	0.00	5.97	0.00	1.18	0.35	0.01	1.53	0.00	20.0	0.0	0.	0.00
60	14.200	31.49	0.0	0.0	0.0	6.36	5.99	0.00	5.99	0.00	1.18	0.35	0.01	1.53	0.00	20.0	0.0	0.	0.00
61	14.100	31.50	0.0	0.0	0.0	6.37	6.01	0.00	6.01	0.00	1.17	0.35	0.01	1.53	0.00	20.0	0.0	0.	0.00
62	14.000	31.50	0.0	0.0	0.0	6.38	6.03	0.00	6.03	0.00	1.17	0.34	0.01	1.53	0.00	20.0	0.0	0.	0.00
63	13.900	31.51	0.0	0.0	0.0	6.35	6.04	0.00	6.04	0.00	1.17	0.34	0.01	1.53	0.00	20.0	0.0	0.	0.00
64	13.800	31.51	0.0	0.0	0.0	6.02	6.41	0.00	6.41	0.00	1.17	0.33	0.01	1.50	0.00	20.0	0.0	0.	0.00
65	13.700	31.52	0.0	0.0	0.0	5.79	6.74	0.00	6.74	0.00	1.16	0.31	0.01	1.48	0.00	20.0	0.0	0.	0.00
66	13.600	31.52	0.0	0.0	0.0	5.63	7.04	0.00	7.04	0.00	1.15	0.30	0.01	1.45	0.00	20.0	0.0	0.	0.00
67	13.500	31.52	0.0	0.0	0.0	5.52	7.31	0.00	7.31	0.00	1.14	0.29	0.00	1.43	0.00	20.0	0.0	0.	0.00
68	13.400	31.53	0.0	0.0	0.0	5.44	7.55	0.00	7.55	0.00	1.13	0.28	0.00	1.41	0.00	20.0	0.0	0.	0.00
69	13.300	31.53	0.0	0.0	0.0	5.37	7.77	0.00	7.77	0.00	1.13	0.27	0.00	1.39	0.00	20.0	0.0	0.	0.00
70	13.200	31.54	0.0	0.0	0.0	5.32	7.97	0.00	7.97	0.00	1.12	0.26	0.00	1.38	0.00	20.0	0.0	0.	0.00
71	13.100	31.54	0.0	0.0	0.0	5.28	8.15	0.00	8.15	0.00	1.11	0.25	0.00	1.36	0.00	20.0	0.0	0.	0.00
72	13.000	31.55	0.0	0.0	0.0	5.25	8.31	0.00	8.31	0.00	1.11	0.24	0.00	1.35	0.00	20.0	0.0	0.	0.00

73	12.900	31.55	0.0	0.0	0.0	5.22	8.46	0.00	8.46	0.00	1.10	0.24	0.00	1.34	0.00	20.0	0.0	0.	0.00
74	12.800	31.56	0.0	0.0	0.0	5.20	8.60	0.00	8.60	0.00	1.10	0.23	0.00	1.32	0.00	20.0	0.0	0.	0.00
75	12.700	31.56	0.0	0.0	0.0	5.18	8.72	0.00	8.72	0.00	1.09	0.22	0.00	1.31	0.00	20.0	0.0	0.	0.00
76	12.600	31.57	0.0	0.0	0.0	5.16	8.84	0.00	8.84	0.00	1.08	0.22	0.00	1.30	0.00	20.0	0.0	0.	0.00
77	12.500	31.57	0.0	0.0	0.0	5.15	8.94	0.00	8.94	0.00	1.08	0.21	0.00	1.29	0.00	20.0	0.0	0.	0.00
78	12.400	31.58	0.0	0.0	0.0	5.13	9.03	0.00	9.03	0.00	1.07	0.21	0.00	1.28	0.00	20.0	0.0	0.	0.00
79	12.300	31.58	0.0	0.0	0.0	5.12	9.12	0.00	9.12	0.00	1.07	0.21	0.00	1.27	0.00	20.0	0.0	0.	0.00
80	12.200	31.59	0.0	0.0	0.0	5.11	9.20	0.00	9.20	0.00	1.06	0.20	0.00	1.27	0.00	20.0	0.0	0.	0.00
81	12.100	31.59	0.0	0.0	0.0	5.09	9.27	0.00	9.27	0.00	1.06	0.20	0.00	1.26	0.00	20.0	0.0	0.	0.00
82	12.000	31.60	0.0	0.0	0.0	5.08	9.34	0.00	9.34	0.00	1.06	0.19	0.00	1.25	0.00	20.0	0.0	0.	0.00
83	11.900	31.60	0.0	0.0	0.0	5.07	9.40	0.00	9.40	0.00	1.05	0.19	0.00	1.24	0.00	20.0	0.0	0.	0.00
84	11.800	31.61	0.0	0.0	0.0	5.07	9.46	0.00	9.46	0.00	1.05	0.19	0.00	1.24	0.00	20.0	0.0	0.	0.00
85	11.700	31.61	0.0	0.0	0.0	5.06	9.51	0.00	9.51	0.00	1.04	0.19	0.00	1.23	0.00	20.0	0.0	0.	0.00
86	11.600	31.62	0.0	0.0	0.0	5.05	9.56	0.00	9.56	0.00	1.04	0.18	0.00	1.22	0.00	20.0	0.0	0.	0.00
87	11.500	31.62	0.0	0.0	0.0	5.04	9.60	0.00	9.60	0.00	1.03	0.18	0.00	1.22	0.00	20.0	0.0	0.	0.00
88	11.400	31.63	0.0	0.0	0.0	5.04	9.64	0.00	9.64	0.00	1.03	0.18	0.00	1.21	0.00	20.0	0.0	0.	0.00
89	11.300	31.63	0.0	0.0	0.0	5.03	9.68	0.00	9.68	0.00	1.03	0.18	0.00	1.21	0.00	20.0	0.0	0.	0.00
90	11.200	31.64	0.0	0.0	0.0	5.02	9.71	0.00	9.71	0.00	1.02	0.18	0.00	1.20	0.00	20.0	0.0	0.	0.00
91	11.100	31.64	0.0	0.0	0.0	5.02	9.75	0.00	9.75	0.00	1.02	0.17	0.00	1.19	0.00	20.0	0.0	0.	0.00
92	11.000	31.65	0.0	0.0	0.0	5.01	9.78	0.00	9.78	0.00	1.02	0.17	0.00	1.19	0.00	20.0	0.0	0.	0.00
93	10.900	31.65	0.0	0.0	0.0	5.01	9.80	0.00	9.80	0.00	1.01	0.17	0.00	1.18	0.00	20.0	0.0	0.	0.00
94	10.800	31.66	0.0	0.0	0.0	5.01	9.83	0.00	9.83	0.00	1.01	0.17	0.00	1.18	0.00	20.0	0.0	0.	0.00
95	10.700	31.66	0.0	0.0	0.0	5.00	9.85	0.00	9.85	0.00	1.01	0.17	0.00	1.18	0.00	20.0	0.0	0.	0.00
96	10.600	31.67	0.0	0.0	0.0	5.00	9.87	0.00	9.87	0.00	1.00	0.17	0.00	1.17	0.00	20.0	0.0	0.	0.00
97	10.500	31.67	0.0	0.0	0.0	4.99	9.89	0.00	9.89	0.00	1.00	0.17	0.00	1.17	0.00	20.0	0.0	0.	0.00
98	10.400	31.68	0.0	0.0	0.0	4.99	9.91	0.00	9.91	0.00	1.00	0.17	0.00	1.16	0.00	20.0	0.0	0.	0.00
99	10.300	31.68	0.0	0.0	0.0	4.99	9.93	0.00	9.93	0.00	0.99	0.16	0.00	1.16	0.00	20.0	0.0	0.	0.00
100	10.200	31.68	0.0	0.0	0.0	4.98	9.95	0.00	9.95	0.00	0.99	0.16	0.00	1.16	0.00	20.0	0.0	0.	0.00
101	10.100	31.69	0.0	0.0	0.0	4.98	9.96	0.00	9.96	0.00	0.99	0.16	0.00	1.15	0.00	20.0	0.0	0.	0.00
102	10.000	31.69	0.0	0.0	0.0	4.98	9.98	0.00	9.98	0.00	0.99	0.16	0.00	1.15	0.00	20.0	0.0	0.	0.00
103	9.900	31.70	0.0	0.0	0.0	4.97	10.10	0.00	10.10	0.00	0.99	0.16	0.00	1.15	0.00	20.0	0.0	0.	0.00
104	9.800	31.70	0.0	0.0	0.0	4.97	10.10	0.00	10.10	0.00	0.98	0.16	0.00	1.15	0.00	20.0	0.0	0.	0.00
105	9.700	31.71	0.0	0.0	0.0	4.96	10.11	0.00	10.11	0.00	0.98	0.16	0.00	1.14	0.00	20.0	0.0	0.	0.00
106	9.600	31.71	0.0	0.0	0.0	4.96	10.11	0.00	10.11	0.00	0.98	0.16	0.00	1.14	0.00	20.0	0.0	0.	0.00
107	9.500	31.72	0.0	0.0	0.0	4.95	10.12	0.00	10.12	0.00	0.98	0.16	0.00	1.14	0.00	20.0	0.0	0.	0.00
108	9.400	31.72	0.0	0.0	0.0	4.95	10.12	0.00	10.12	0.00	0.97	0.16	0.00	1.13	0.00	20.0	0.0	0.	0.00
109	9.300	31.73	0.0	0.0	0.0	4.95	10.13	0.00	10.13	0.00	0.97	0.16	0.00	1.13	0.00	20.0	0.0	0.	0.00
110	9.200	31.73	0.0	0.0	0.0	4.95	10.13	0.00	10.13	0.00	0.97	0.16	0.00	1.13	0.00	20.0	0.0	0.	0.00
111	9.100	31.74	0.0	0.0	0.0	4.95	10.13	0.00	10.13	0.00	0.97	0.16	0.00	1.13	0.00	20.0	0.0	0.	0.00
112	9.000	31.74	0.0	0.0	0.0	4.94	10.13	0.00	10.13	0.00	0.97	0.16	0.00	1.12	0.00	20.0	0.0	0.	0.00
113	8.900	31.75	0.0	0.0	0.0	4.94	10.14	0.00	10.14	0.00	0.96	0.16	0.00	1.12	0.00	20.0	0.0	0.	0.00
114	8.800	31.75	0.0	0.0	0.0	4.94	10.14	0.00	10.14	0.00	0.96	0.16	0.00	1.12	0.00	20.0	0.0	0.	0.00
115	8.700	31.76	0.0	0.0	0.0	4.94	10.14	0.00	10.14	0.00	0.96	0.16	0.00	1.11	0.00	20.0	0.0	0.	0.00
116	8.600	31.76	0.0	0.0	0.0	4.94	10.14	0.00	10.14	0.00	0.96	0.16	0.00	1.11	0.00	20.0	0.0	0.	0.00
117	8.500	31.77	0.0	0.0	0.0	4.94	10.15	0.00	10.15	0.00	0.96	0.15	0.00	1.11	0.00	20.0	0.0	0.	0.00
118	8.400	31.77	0.0	0.0	0.0	4.94	10.15	0.00	10.15	0.00	0.95	0.15	0.00	1.11	0.00	20.0	0.0	0.	0.00
119	8.300	31.78	0.0	0.0	0.0	4.93	10.31	0.00	10.31	0.00	0.95	0.16	0.00	1.11	0.00	20.0	0.0	0.	0.00
120	8.200	31.78	0.0	0.0	0.0	4.93	10.30	0.00	10.30	0.00	0.95	0.16	0.00	1.11	0.00	20.0	0.0	0.	0.00
121	8.100	31.79	0.0	0.0	0.0	4.92	10.29	0.00	10.29	0.00	0.95	0.16	0.00	1.11	0.00	20.0	0.0	0.	0.00
122	8.000	31.79	0.0	0.0	0.0	4.92	10.29	0.00	10.29	0.00	0.95	0.16	0.00	1.11	0.00	20.0	0.0	0.	0.00

123	7.900	31.80	0.0	0.0	0.0	4.92	10.28	0.00	10.28	0.00	0.95	0.16	0.00	1.10	0.00	20.0	0.0	0.	0.00
124	7.800	31.80	0.0	0.0	0.0	4.91	10.28	0.00	10.28	0.00	0.95	0.16	0.00	1.10	0.00	20.0	0.0	0.	0.00
125	7.700	31.81	0.0	0.0	0.0	4.91	10.27	0.00	10.27	0.00	0.94	0.16	0.00	1.10	0.00	20.0	0.0	0.	0.00
126	7.600	31.81	0.0	0.0	0.0	4.91	10.27	0.00	10.27	0.00	0.94	0.15	0.00	1.10	0.00	20.0	0.0	0.	0.00
127	7.500	31.82	0.0	0.0	0.0	4.91	10.26	0.00	10.26	0.00	0.94	0.15	0.00	1.09	0.00	20.0	0.0	0.	0.00
128	7.400	31.82	0.0	0.0	0.0	4.91	10.26	0.00	10.26	0.00	0.94	0.15	0.00	1.09	0.00	20.0	0.0	0.	0.00
129	7.300	31.83	0.0	0.0	0.0	4.91	10.25	0.00	10.25	0.00	0.94	0.15	0.00	1.09	0.00	20.0	0.0	0.	0.00
130	7.200	31.83	0.0	0.0	0.0	4.91	10.25	0.00	10.25	0.00	0.94	0.15	0.00	1.09	0.00	20.0	0.0	0.	0.00
131	7.100	31.84	0.0	0.0	0.0	4.91	10.25	0.00	10.25	0.00	0.93	0.15	0.00	1.09	0.00	20.0	0.0	0.	0.00
132	7.000	31.84	0.0	0.0	0.0	4.91	10.24	0.00	10.24	0.00	0.93	0.15	0.00	1.09	0.00	20.0	0.0	0.	0.00
133	6.900	31.84	0.0	0.0	0.0	4.91	10.24	0.00	10.24	0.00	0.93	0.15	0.00	1.08	0.00	20.0	0.0	0.	0.00
134	6.800	31.85	0.0	0.0	0.0	4.91	10.23	0.00	10.23	0.00	0.93	0.15	0.00	1.08	0.00	20.0	0.0	0.	0.00
135	6.700	31.85	0.0	0.0	0.0	4.91	10.23	0.00	10.23	0.00	0.93	0.15	0.00	1.08	0.00	20.0	0.0	0.	0.00
136	6.600	31.86	0.0	0.0	0.0	4.91	10.23	0.00	10.23	0.00	0.93	0.15	0.00	1.08	0.00	20.0	0.0	0.	0.00
137	6.500	31.86	0.0	0.0	0.0	4.91	10.22	0.00	10.22	0.00	0.93	0.15	0.00	1.08	0.00	20.0	0.0	0.	0.00
138	6.400	31.87	0.0	0.0	0.0	4.91	10.22	0.00	10.22	0.00	0.93	0.15	0.00	1.07	0.00	20.0	0.0	0.	0.00
139	6.300	31.87	0.0	0.0	0.0	4.91	10.22	0.00	10.22	0.00	0.92	0.15	0.00	1.07	0.00	20.0	0.0	0.	0.00
140	6.200	31.88	0.0	0.0	0.0	4.91	10.21	0.00	10.21	0.00	0.92	0.15	0.00	1.07	0.00	20.0	0.0	0.	0.00
141	6.100	31.88	0.0	0.0	0.0	4.91	10.21	0.00	10.21	0.00	0.92	0.15	0.00	1.07	0.00	20.0	0.0	0.	0.00
142	6.000	31.89	0.0	0.0	0.0	4.91	10.21	0.00	10.21	0.00	0.92	0.15	0.00	1.07	0.00	20.0	0.0	0.	0.00
143	5.900	31.89	0.0	0.0	0.0	4.91	10.20	0.00	10.20	0.00	0.92	0.15	0.00	1.07	0.00	20.0	0.0	0.	0.00
144	5.800	31.90	0.0	0.0	0.0	4.91	10.20	0.00	10.20	0.00	0.92	0.15	0.00	1.07	0.00	20.0	0.0	0.	0.00
145	5.700	31.90	0.0	0.0	0.0	4.91	10.20	0.00	10.20	0.00	0.92	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00
146	5.600	31.91	0.0	0.0	0.0	4.91	10.19	0.00	10.19	0.00	0.92	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00
147	5.500	31.91	0.0	0.0	0.0	4.91	10.19	0.00	10.19	0.00	0.91	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00
148	5.400	31.92	0.0	0.0	0.0	4.90	10.19	0.00	10.19	0.00	0.91	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00
149	5.300	31.92	0.0	0.0	0.0	4.90	10.19	0.00	10.19	0.00	0.91	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00
150	5.200	31.93	0.0	0.0	0.0	4.90	10.18	0.00	10.18	0.00	0.91	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00
151	5.100	31.93	0.0	0.0	0.0	4.90	10.18	0.00	10.18	0.00	0.91	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00
152	5.000	31.94	0.0	0.0	0.0	4.90	10.18	0.00	10.18	0.00	0.91	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00
153	4.900	31.94	0.0	0.0	0.0	4.90	10.18	0.00	10.18	0.00	0.91	0.15	0.00	1.05	0.00	20.0	0.0	0.	0.00
154	4.800	31.95	0.0	0.0	0.0	4.90	10.17	0.00	10.17	0.00	0.91	0.14	0.00	1.05	0.00	20.0	0.0	0.	0.00
155	4.700	31.95	0.0	0.0	0.0	4.90	10.17	0.00	10.17	0.00	0.91	0.14	0.00	1.05	0.00	20.0	0.0	0.	0.00
156	4.600	31.96	0.0	0.0	0.0	4.90	10.17	0.00	10.17	0.00	0.91	0.14	0.00	1.05	0.00	20.0	0.0	0.	0.00
157	4.500	31.96	0.0	0.0	0.0	4.90	10.17	0.00	10.17	0.00	0.90	0.14	0.00	1.05	0.00	20.0	0.0	0.	0.00
158	4.400	31.97	0.0	0.0	0.0	4.90	10.16	0.00	10.16	0.00	0.90	0.14	0.00	1.05	0.00	20.0	0.0	0.	0.00
159	4.300	31.97	0.0	0.0	0.0	4.90	10.16	0.00	10.16	0.00	0.90	0.14	0.00	1.05	0.00	20.0	0.0	0.	0.00
160	4.200	31.98	0.0	0.0	0.0	4.90	10.16	0.00	10.16	0.00	0.90	0.14	0.00	1.05	0.00	20.0	0.0	0.	0.00
161	4.100	31.98	0.0	0.0	0.0	4.90	10.16	0.00	10.16	0.00	0.90	0.14	0.00	1.04	0.00	20.0	0.0	0.	0.00
162	4.000	31.99	0.0	0.0	0.0	4.90	10.16	0.00	10.16	0.00	0.90	0.14	0.00	1.04	0.00	20.0	0.0	0.	0.00
163	3.900	31.99	0.0	0.0	0.0	4.90	10.15	0.00	10.15	0.00	0.90	0.14	0.00	1.04	0.00	20.0	0.0	0.	0.00
164	3.800	32.00	0.0	0.0	0.0	4.90	10.15	0.00	10.15	0.00	0.90	0.14	0.00	1.04	0.00	20.0	0.0	0.	0.00
165	3.700	32.00	0.0	0.0	0.0	4.90	10.15	0.00	10.15	0.00	0.90	0.14	0.00	1.04	0.00	20.0	0.0	0.	0.00
180	3.600	32.00	0.0	0.0	0.0	4.10	6.89	0.00	6.89	0.00	1.05	0.30	0.00	1.35	0.00	20.0	0.0	0.	0.00
181	3.500	32.00	0.0	0.0	0.0	4.19	7.10	0.00	7.10	0.00	1.04	0.29	0.00	1.34	0.00	20.0	0.0	0.	0.00
182	3.400	32.00	0.0	0.0	0.0	4.26	7.30	0.00	7.30	0.00	1.04	0.29	0.00	1.33	0.00	20.0	0.0	0.	0.00
183	3.300	32.00	0.0	0.0	0.0	4.31	7.49	0.00	7.49	0.00	1.03	0.28	0.00	1.31	0.00	20.0	0.0	0.	0.00
184	3.200	32.00	0.0	0.0	0.0	4.35	7.67	0.00	7.67	0.00	1.03	0.27	0.00	1.30	0.00	20.0	0.0	0.	0.00
185	3.100	32.00	0.0	0.0	0.0	4.38	7.85	0.00	7.85	0.00	1.03	0.27	0.00	1.29	0.00	20.0	0.0	0.	0.00
186	3.000	32.00	0.0	0.0	0.0	4.41	8.02	0.00	8.02	0.00	1.02	0.26	0.00	1.28	0.00	20.0	0.0	0.	0.00

187	2.900	32.00	0.0	0.0	0.0	4.42	8.19	0.00	8.19	0.00	1.02	0.25	0.00	1.27	0.00	20.0	0.0	0.	0.00
188	2.800	32.00	0.0	0.0	0.0	4.43	8.35	0.00	8.35	0.00	1.01	0.25	0.00	1.26	0.00	20.0	0.0	0.	0.00
189	2.700	32.00	0.0	0.0	0.0	4.43	8.50	0.00	8.50	0.00	1.01	0.24	0.00	1.25	0.00	20.0	0.0	0.	0.00
190	2.600	32.00	0.0	0.0	0.0	4.43	8.65	0.00	8.65	0.00	1.01	0.24	0.00	1.24	0.00	20.0	0.0	0.	0.00
191	2.500	32.00	0.0	0.0	0.0	4.42	8.79	0.00	8.79	0.00	1.00	0.23	0.00	1.23	0.00	20.0	0.0	0.	0.00
192	2.400	32.00	0.0	0.0	0.0	4.41	8.92	0.00	8.92	0.00	1.00	0.23	0.00	1.23	0.00	20.0	0.0	0.	0.00
193	2.300	32.00	0.0	0.0	0.0	4.40	9.05	0.00	9.05	0.00	0.99	0.22	0.00	1.22	0.00	20.0	0.0	0.	0.00
194	2.200	32.00	0.0	0.0	0.0	4.39	9.18	0.00	9.18	0.00	0.99	0.22	0.00	1.21	0.00	20.0	0.0	0.	0.00
195	2.100	32.00	0.0	0.0	0.0	4.37	9.30	0.00	9.30	0.00	0.99	0.21	0.00	1.20	0.00	20.0	0.0	0.	0.00
196	2.000	32.00	0.0	0.0	0.0	4.36	9.42	0.00	9.42	0.00	0.98	0.21	0.00	1.19	0.00	20.0	0.0	0.	0.00
197	1.900	32.00	0.0	0.0	0.0	4.34	9.53	0.00	9.53	0.00	0.98	0.20	0.00	1.18	0.00	20.0	0.0	0.	0.00
198	1.800	32.00	0.0	0.0	0.0	4.32	9.64	0.00	9.64	0.00	0.98	0.20	0.00	1.18	0.00	20.0	0.0	0.	0.00
199	1.700	32.00	0.0	0.0	0.0	4.30	9.74	0.00	9.74	0.00	0.97	0.20	0.00	1.17	0.00	20.0	0.0	0.	0.00
200	1.600	32.00	0.0	0.0	0.0	4.28	9.84	0.00	9.84	0.00	0.97	0.19	0.00	1.16	0.00	20.0	0.0	0.	0.00
201	1.500	32.00	0.0	0.0	0.0	4.26	9.93	0.00	9.93	0.00	0.96	0.19	0.00	1.15	0.00	20.0	0.0	0.	0.00
202	1.400	32.00	0.0	0.0	0.0	4.24	10.03	0.00	10.03	0.00	0.96	0.19	0.00	1.15	0.00	20.0	0.0	0.	0.00
203	1.300	32.00	0.0	0.0	0.0	4.22	10.11	0.00	10.11	0.00	0.96	0.18	0.00	1.14	0.00	20.0	0.0	0.	0.00
204	1.200	32.00	0.0	0.0	0.0	4.20	10.20	0.00	10.20	0.00	0.95	0.18	0.00	1.13	0.00	20.0	0.0	0.	0.00
205	1.100	32.00	0.0	0.0	0.0	4.18	10.28	0.00	10.28	0.00	0.95	0.18	0.00	1.13	0.00	20.0	0.0	0.	0.00
206	1.000	32.00	0.0	0.0	0.0	4.16	10.36	0.00	10.36	0.00	0.95	0.17	0.00	1.12	0.00	20.0	0.0	0.	0.00
207	0.900	32.00	0.0	0.0	0.0	4.14	10.43	0.00	10.43	0.00	0.94	0.17	0.00	1.11	0.00	20.0	0.0	0.	0.00
208	0.800	32.00	0.0	0.0	0.0	4.13	10.51	0.00	10.51	0.00	0.94	0.17	0.00	1.11	0.00	20.0	0.0	0.	0.00
209	0.700	32.00	0.0	0.0	0.0	4.11	10.58	0.00	10.58	0.00	0.94	0.16	0.00	1.10	0.00	20.0	0.0	0.	0.00
210	0.600	32.00	0.0	0.0	0.0	4.09	10.64	0.00	10.64	0.00	0.93	0.16	0.00	1.09	0.00	20.0	0.0	0.	0.00
211	0.500	32.00	0.0	0.0	0.0	4.07	10.71	0.00	10.71	0.00	0.93	0.16	0.00	1.09	0.00	20.0	0.0	0.	0.00
212	0.400	32.00	0.0	0.0	0.0	4.06	10.77	0.00	10.77	0.00	0.92	0.16	0.00	1.08	0.00	20.0	0.0	0.	0.00
213	0.300	32.00	0.0	0.0	0.0	4.04	10.83	0.00	10.83	0.00	0.92	0.15	0.00	1.07	0.00	20.0	0.0	0.	0.00
214	0.200	32.00	0.0	0.0	0.0	4.02	10.89	0.00	10.89	0.00	0.92	0.15	0.00	1.07	0.00	20.0	0.0	0.	0.00
215	0.100	32.00	0.0	0.0	0.0	4.01	10.94	0.00	10.94	0.00	0.91	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00
216	0.000	32.00	0.0	0.0	0.0	3.99	11.00	0.00	11.00	0.00	0.91	0.15	0.00	1.06	0.00	20.0	0.0	0.	0.00

SPECIAL REPORT: ICWWtoBlue
WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS	CHL A *	MACRO	COLI #/100mL	NCM
166	1.300	32.00	0.0	0.0	0.0	1.82	4.05	0.00	4.05	0.00	1.13	0.48	0.00	1.62	0.00	20.0	0.0	0.	0.00
167	1.200	32.00	0.0	0.0	0.0	2.14	4.27	0.00	4.27	0.00	1.13	0.47	0.00	1.60	0.00	20.0	0.0	0.	0.00
168	1.100	32.00	0.0	0.0	0.0	2.43	4.48	0.00	4.48	0.00	1.12	0.46	0.00	1.58	0.00	20.0	0.0	0.	0.00
169	1.000	32.00	0.0	0.0	0.0	2.68	4.68	0.00	4.68	0.00	1.12	0.45	0.00	1.57	0.00	20.0	0.0	0.	0.00
170	0.900	32.00	0.0	0.0	0.0	2.89	4.87	0.00	4.87	0.00	1.11	0.43	0.01	1.55	0.00	20.0	0.0	0.	0.00
171	0.800	32.00	0.0	0.0	0.0	3.08	5.05	0.00	5.05	0.00	1.11	0.42	0.01	1.54	0.00	20.0	0.0	0.	0.00
172	0.700	32.00	0.0	0.0	0.0	3.24	5.22	0.00	5.22	0.00	1.10	0.41	0.01	1.52	0.00	20.0	0.0	0.	0.00
173	0.600	32.00	0.0	0.0	0.0	3.38	5.39	0.00	5.39	0.00	1.10	0.40	0.01	1.51	0.00	20.0	0.0	0.	0.00
174	0.500	32.00	0.0	0.0	0.0	3.50	5.54	0.00	5.54	0.00	1.09	0.38	0.01	1.49	0.00	20.0	0.0	0.	0.00
175	0.400	32.00	0.0	0.0	0.0	3.60	5.69	0.00	5.69	0.00	1.09	0.37	0.01	1.47	0.00	20.0	0.0	0.	0.00
176	0.300	32.00	0.0	0.0	0.0	3.69	5.84	0.00	5.84	0.00	1.08	0.36	0.01	1.46	0.00	20.0	0.0	0.	0.00
177	0.200	32.00	0.0	0.0	0.0	3.76	5.98	0.00	5.98	0.00	1.08	0.35	0.01	1.44	0.00	20.0	0.0	0.	0.00

178	0.100	32.00	0.0	0.0	0.0	3.83	6.11	0.00	6.11	0.00	1.07	0.34	0.01	1.43	0.00	20.0	0.0	0.	0.00
179	0.000	32.00	0.0	0.0	0.0	3.88	6.23	0.00	6.23	0.00	1.07	0.33	0.01	1.41	0.00	20.0	0.0	0.	0.00

SPECIAL REPORT: BayouBlue#1
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#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	20.100	7.40	3.84	0.24	0.00	0.00	0.00	0.00	0.00	1.01	0.99	0.02	0.00	0.18	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
2	20.000	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.20	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
3	19.900	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.20	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
4	19.800	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.21	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
5	19.700	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.22	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
6	19.600	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.22	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
7	19.500	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.23	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
8	19.400	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.23	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
9	19.300	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.23	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
10	19.200	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.24	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
11	19.100	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.24	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
12	19.000	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.24	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
13	18.900	7.40	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.24	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
14	18.800	7.40	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.24	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
15	18.700	7.40	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
16	18.600	7.39	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
17	18.500	7.39	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
18	18.400	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
19	18.300	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
20	18.200	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
21	18.100	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
22	18.000	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
23	17.900	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
24	17.800	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
25	17.700	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
26	17.600	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
27	17.500	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
28	17.400	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
29	17.300	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
30	17.200	7.39	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
31	17.100	7.39	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
32	17.000	7.39	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
33	16.900	7.38	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
34	16.800	7.38	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
35	16.700	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
36	16.600	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
37	16.500	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
38	16.400	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
39	16.300	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00

40	16.200	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
41	16.100	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
42	16.000	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
43	15.900	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
44	15.800	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
45	15.700	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
46	15.600	7.38	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
47	15.500	7.38	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
48	15.400	7.38	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
49	15.300	7.37	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
50	15.200	7.37	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
51	15.100	7.37	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
52	15.000	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
53	14.900	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
54	14.800	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
55	14.700	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
56	14.600	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
57	14.500	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
58	14.400	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
59	14.300	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
60	14.200	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
61	14.100	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
62	14.000	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
63	13.900	7.37	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
64	13.800	7.37	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
65	13.700	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
66	13.600	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
67	13.500	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
68	13.400	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
69	13.300	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
70	13.200	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
71	13.100	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
72	13.000	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
73	12.900	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
74	12.800	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
75	12.700	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
76	12.600	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
77	12.500	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
78	12.400	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
79	12.300	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
80	12.200	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
81	12.100	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
82	12.000	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
83	11.900	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
84	11.800	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
85	11.700	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
86	11.600	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
87	11.500	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
88	11.400	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
89	11.300	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00

90	11.200	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
91	11.100	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
92	11.000	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
93	10.900	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
94	10.800	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
95	10.700	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
96	10.600	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
97	10.500	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
98	10.400	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
99	10.300	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
100	10.200	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
101	10.100	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
102	10.000	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
103	9.900	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
104	9.800	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
105	9.700	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
106	9.600	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
107	9.500	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
108	9.400	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
109	9.300	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
110	9.200	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
111	9.100	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
112	9.000	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
113	8.900	7.34	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
114	8.800	7.34	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
115	8.700	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
116	8.600	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
117	8.500	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
118	8.400	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
119	8.300	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
120	8.200	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
121	8.100	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
122	8.000	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
123	7.900	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
124	7.800	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
125	7.700	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
126	7.600	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
127	7.500	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
128	7.400	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
129	7.300	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
130	7.200	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
131	7.100	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
132	7.000	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
133	6.900	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
134	6.800	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
135	6.700	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
136	6.600	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
137	6.500	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
138	6.400	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
139	6.300	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

140	6.200	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
141	6.100	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
142	6.000	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
143	5.900	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
144	5.800	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
145	5.700	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
146	5.600	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
147	5.500	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
148	5.400	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
149	5.300	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
150	5.200	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
151	5.100	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
152	5.000	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
153	4.900	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
154	4.800	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
155	4.700	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
156	4.600	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
157	4.500	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
158	4.400	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
159	4.300	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
160	4.200	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
161	4.100	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
162	4.000	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
163	3.900	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
164	3.800	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
165	3.700	7.30	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
180	3.600	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
181	3.500	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
182	3.400	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
183	3.300	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
184	3.200	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
185	3.100	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
186	3.000	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
187	2.900	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
188	2.800	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
189	2.700	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
190	2.600	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
191	2.500	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
192	2.400	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
193	2.300	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
194	2.200	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
195	2.100	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
196	2.000	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
197	1.900	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
198	1.800	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
199	1.700	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
200	1.600	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
201	1.500	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
202	1.400	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
203	1.300	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

204	1.200	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
205	1.100	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
206	1.000	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
207	0.900	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
208	0.800	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
209	0.700	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
210	0.600	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
211	0.500	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
212	0.400	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
213	0.300	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
214	0.200	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
215	0.100	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
216	0.000	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

SPECIAL REPORT: ICWWtoBlue
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	
166	1.300	7.30	0.62	0.24	0.00	0.00	0.00	0.00	0.00	1.06	0.97	0.03	0.00	0.14	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
167	1.200	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.20	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
168	1.100	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.21	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
169	1.000	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.22	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
170	0.900	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.23	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
171	0.800	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.23	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
172	0.700	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.24	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
173	0.600	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.24	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
174	0.500	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.24	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
175	0.400	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.24	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
176	0.300	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
177	0.200	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
178	0.100	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
179	0.000	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	

SPECIAL REPORT: BayouBlue#1
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW VELO	ADVCTV	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN	MEAN VELO
	km	km	m³/s	m/s	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
1	20.20	20.10	0.3963	0.079	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.079
2	20.10	20.00	0.3966	0.079	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.079
3	20.00	19.90	0.3969	0.079	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.079
4	19.90	19.80	0.3972	0.079	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.079
5	19.80	19.70	0.3975	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080

6	19.70	19.60	0.3978	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
7	19.60	19.50	0.3981	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
8	19.50	19.40	0.3984	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
9	19.40	19.30	0.3987	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
10	19.30	19.20	0.3990	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
11	19.20	19.10	0.3993	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
12	19.10	19.00	0.3996	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
13	19.00	18.90	0.3999	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
14	18.90	18.80	0.4002	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
15	18.80	18.70	0.4005	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
16	18.70	18.60	0.4008	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
17	18.60	18.50	0.4012	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
18	18.50	18.40	0.4015	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
19	18.40	18.30	0.4018	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
20	18.30	18.20	0.4021	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
21	18.20	18.10	0.4024	0.080	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.080
22	18.10	18.00	0.4027	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
23	18.00	17.90	0.4030	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
24	17.90	17.80	0.4033	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
25	17.80	17.70	0.4036	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
26	17.70	17.60	0.4039	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
27	17.60	17.50	0.4042	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
28	17.50	17.40	0.4045	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
29	17.40	17.30	0.4048	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
30	17.30	17.20	0.4051	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
31	17.20	17.10	0.4054	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
32	17.10	17.00	0.4057	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
33	17.00	16.90	0.4060	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
34	16.90	16.80	0.4063	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
35	16.80	16.70	0.4066	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
36	16.70	16.60	0.4069	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
37	16.60	16.50	0.4072	0.081	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.081
38	16.50	16.40	0.4075	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
39	16.40	16.30	0.4078	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
40	16.30	16.20	0.4081	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
41	16.20	16.10	0.4084	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
42	16.10	16.00	0.4087	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
43	16.00	15.90	0.4090	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
44	15.90	15.80	0.4093	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
45	15.80	15.70	0.4096	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
46	15.70	15.60	0.4099	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
47	15.60	15.50	0.4102	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
48	15.50	15.40	0.4105	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
49	15.40	15.30	0.4108	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
50	15.30	15.20	0.4112	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
51	15.20	15.10	0.4115	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
52	15.10	15.00	0.4118	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
53	15.00	14.90	0.4121	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
54	14.90	14.80	0.4124	0.082	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.082
55	14.80	14.70	0.4127	0.083	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.083

56	14.70	14.60	0.4130	0.083	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.083
57	14.60	14.50	0.4133	0.083	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.083
58	14.50	14.40	0.4136	0.083	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.083
59	14.40	14.30	0.4139	0.083	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.083
60	14.30	14.20	0.4142	0.083	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.083
61	14.20	14.10	0.4145	0.083	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.083
62	14.10	14.00	0.4148	0.083	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.083
63	14.00	13.90	0.0187	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
64	13.90	13.80	0.0190	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
65	13.80	13.70	0.0193	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
66	13.70	13.60	0.0196	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
67	13.60	13.50	0.0199	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
68	13.50	13.40	0.0202	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
69	13.40	13.30	0.0205	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
70	13.30	13.20	0.0208	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
71	13.20	13.10	0.0211	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
72	13.10	13.00	0.0214	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
73	13.00	12.90	0.0217	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
74	12.90	12.80	0.0220	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
75	12.80	12.70	0.0223	0.004	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.004
76	12.70	12.60	0.0227	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
77	12.60	12.50	0.0230	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
78	12.50	12.40	0.0233	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
79	12.40	12.30	0.0236	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
80	12.30	12.20	0.0239	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
81	12.20	12.10	0.0242	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
82	12.10	12.00	0.0245	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
83	12.00	11.90	0.0248	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
84	11.90	11.80	0.0251	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
85	11.80	11.70	0.0254	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
86	11.70	11.60	0.0257	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
87	11.60	11.50	0.0260	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
88	11.50	11.40	0.0263	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
89	11.40	11.30	0.0266	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
90	11.30	11.20	0.0269	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
91	11.20	11.10	0.0272	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
92	11.10	11.00	0.0275	0.005	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.005
93	11.00	10.90	0.0278	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
94	10.90	10.80	0.0281	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
95	10.80	10.70	0.0284	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
96	10.70	10.60	0.0287	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
97	10.60	10.50	0.0290	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
98	10.50	10.40	0.0293	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
99	10.40	10.30	0.0296	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
100	10.30	10.20	0.0299	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
101	10.20	10.10	0.0302	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
102	10.10	10.00	0.0305	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
103	10.00	9.90	0.0309	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
104	9.90	9.80	0.0312	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
105	9.80	9.70	0.0315	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006

106	9.70	9.60	0.0318	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
107	9.60	9.50	0.0321	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
108	9.50	9.40	0.0324	0.006	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.006
109	9.40	9.30	0.0328	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
110	9.30	9.20	0.0331	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
111	9.20	9.10	0.0334	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
112	9.10	9.00	0.0337	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
113	9.00	8.90	0.0340	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
114	8.90	8.80	0.0343	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
115	8.80	8.70	0.0346	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
116	8.70	8.60	0.0349	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
117	8.60	8.50	0.0352	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
118	8.50	8.40	0.0355	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
119	8.40	8.30	0.0360	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
120	8.30	8.20	0.0363	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
121	8.20	8.10	0.0366	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
122	8.10	8.00	0.0369	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
123	8.00	7.90	0.0372	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
124	7.90	7.80	0.0375	0.007	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.007
125	7.80	7.70	0.0378	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
126	7.70	7.60	0.0381	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
127	7.60	7.50	0.0384	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
128	7.50	7.40	0.0387	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
129	7.40	7.30	0.0390	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
130	7.30	7.20	0.0393	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
131	7.20	7.10	0.0396	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
132	7.10	7.00	0.0399	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
133	7.00	6.90	0.0402	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
134	6.90	6.80	0.0405	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
135	6.80	6.70	0.0408	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
136	6.70	6.60	0.0411	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
137	6.60	6.50	0.0414	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
138	6.50	6.40	0.0417	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
139	6.40	6.30	0.0420	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
140	6.30	6.20	0.0423	0.008	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.008
141	6.20	6.10	0.0426	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
142	6.10	6.00	0.0429	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
143	6.00	5.90	0.0432	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
144	5.90	5.80	0.0435	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
145	5.80	5.70	0.0438	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
146	5.70	5.60	0.0441	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
147	5.60	5.50	0.0444	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
148	5.50	5.40	0.0447	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
149	5.40	5.30	0.0450	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
150	5.30	5.20	0.0453	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
151	5.20	5.10	0.0456	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
152	5.10	5.00	0.0460	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
153	5.00	4.90	0.0463	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
154	4.90	4.80	0.0466	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
155	4.80	4.70	0.0469	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009

156	4.70	4.60	0.0472	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
157	4.60	4.50	0.0475	0.009	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.009
158	4.50	4.40	0.0478	0.010	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.010
159	4.40	4.30	0.0481	0.010	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.010
160	4.30	4.20	0.0484	0.010	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.010
161	4.20	4.10	0.0487	0.010	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.010
162	4.10	4.00	0.0490	0.010	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.010
163	4.00	3.90	0.0493	0.010	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.010
164	3.90	3.80	0.0496	0.010	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.010
165	3.80	3.70	0.0499	0.010	0.50	10.0	500.	1000.0	5.0	0.	0.000	0.000	0.010
180	3.70	3.60	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
181	3.60	3.50	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
182	3.50	3.40	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
183	3.40	3.30	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
184	3.30	3.20	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
185	3.20	3.10	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
186	3.10	3.00	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
187	3.00	2.90	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
188	2.90	2.80	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
189	2.80	2.70	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
190	2.70	2.60	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
191	2.60	2.50	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
192	2.50	2.40	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
193	2.40	2.30	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
194	2.30	2.20	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
195	2.20	2.10	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
196	2.10	2.00	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
197	2.00	1.90	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
198	1.90	1.80	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
199	1.80	1.70	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
200	1.70	1.60	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
201	1.60	1.50	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
202	1.50	1.40	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
203	1.40	1.30	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
204	1.30	1.20	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
205	1.20	1.10	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
206	1.10	1.00	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
207	1.00	0.90	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
208	0.90	0.80	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
209	0.80	0.70	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
210	0.70	0.60	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
211	0.60	0.50	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
212	0.50	0.40	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
213	0.40	0.30	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
214	0.30	0.20	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
215	0.20	0.10	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008
216	0.10	0.00	0.4459	0.008	0.90	65.5	5895.	6550.0	58.9	0.	0.000	0.000	0.008

SPECIAL REPORT: ICWWtoBlue

HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m³/s	ADVCTV m/s	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
166	1.40	1.30	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
167	1.30	1.20	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
168	1.20	1.10	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
169	1.10	1.00	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
170	1.00	0.90	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
171	0.90	0.80	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
172	0.80	0.70	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
173	0.70	0.60	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
174	0.60	0.50	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
175	0.50	0.40	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
176	0.40	0.30	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
177	0.30	0.20	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
178	0.20	0.10	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006
179	0.10	0.00	0.3960	0.006	1.40	44.0	6160.	4400.0	61.6	0.	0.000	0.000	0.006

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

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
1	HDWTR	0.39600	31.20	0.00	0.00	0.00	1.68	4.69	0.00	4.69	0.00	1.20	0.40	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00030	30.90	0.00	0.00	0.00	1.68	4.69	0.00			1.20	0.40	0.00	0.00	0.00	0.00	
63	WSTLD	-0.39638	31.51	0.00	0.00	0.00	6.35	6.04	0.00	6.04	0.00	1.17	0.34	0.01	0.00	20.00	0.00	0.00
103	WSTLD	0.00010	31.20	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.40	1.50	0.00	0.00	0.00	0.00	0.00
119	WSTLD	0.00017	31.20	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	1.40	1.50	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
1	20.20	20.10	0.39630	0.0	0.07926	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.079	
2	20.10	20.00	0.39661	0.0	0.07932	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.079	
3	20.00	19.90	0.39691	0.0	0.07938	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.079	
4	19.90	19.80	0.39721	0.0	0.07944	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.079	
5	19.80	19.70	0.39752	0.0	0.07950	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080	
6	19.70	19.60	0.39782	0.0	0.07956	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080	

7	19.60	19.50	0.39812	0.0	0.07962	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
8	19.50	19.40	0.39842	0.0	0.07968	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
9	19.40	19.30	0.39873	0.0	0.07975	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
10	19.30	19.20	0.39903	0.0	0.07981	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
11	19.20	19.10	0.39933	0.0	0.07987	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
12	19.10	19.00	0.39964	0.0	0.07993	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
13	19.00	18.90	0.39994	0.0	0.07999	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
14	18.90	18.80	0.40024	0.0	0.08005	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
15	18.80	18.70	0.40055	0.0	0.08011	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
16	18.70	18.60	0.40085	0.0	0.08017	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
17	18.60	18.50	0.40115	0.0	0.08023	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
18	18.50	18.40	0.40145	0.0	0.08029	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
19	18.40	18.30	0.40176	0.0	0.08035	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
20	18.30	18.20	0.40206	0.0	0.08041	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
21	18.20	18.10	0.40236	0.0	0.08047	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.080
22	18.10	18.00	0.40267	0.0	0.08053	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
23	18.00	17.90	0.40297	0.0	0.08059	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
24	17.90	17.80	0.40327	0.0	0.08065	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
25	17.80	17.70	0.40358	0.0	0.08072	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
26	17.70	17.60	0.40388	0.0	0.08078	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
27	17.60	17.50	0.40418	0.0	0.08084	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
28	17.50	17.40	0.40448	0.0	0.08090	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
29	17.40	17.30	0.40479	0.0	0.08096	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
30	17.30	17.20	0.40509	0.0	0.08102	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
31	17.20	17.10	0.40539	0.0	0.08108	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
32	17.10	17.00	0.40570	0.0	0.08114	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
33	17.00	16.90	0.40600	0.0	0.08120	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
34	16.90	16.80	0.40630	0.0	0.08126	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
35	16.80	16.70	0.40661	0.0	0.08132	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
36	16.70	16.60	0.40691	0.0	0.08138	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
37	16.60	16.50	0.40721	0.0	0.08144	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.081
38	16.50	16.40	0.40752	0.0	0.08150	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
39	16.40	16.30	0.40782	0.0	0.08156	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
40	16.30	16.20	0.40812	0.0	0.08162	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
41	16.20	16.10	0.40842	0.0	0.08168	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
42	16.10	16.00	0.40873	0.0	0.08175	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
43	16.00	15.90	0.40903	0.0	0.08181	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
44	15.90	15.80	0.40933	0.0	0.08187	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
45	15.80	15.70	0.40964	0.0	0.08193	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
46	15.70	15.60	0.40994	0.0	0.08199	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
47	15.60	15.50	0.41024	0.0	0.08205	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
48	15.50	15.40	0.41055	0.0	0.08211	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
49	15.40	15.30	0.41085	0.0	0.08217	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
50	15.30	15.20	0.41115	0.0	0.08223	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
51	15.20	15.10	0.41145	0.0	0.08229	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
52	15.10	15.00	0.41176	0.0	0.08235	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
53	15.00	14.90	0.41206	0.0	0.08241	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
54	14.90	14.80	0.41236	0.0	0.08247	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.082
55	14.80	14.70	0.41267	0.0	0.08253	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.083
56	14.70	14.60	0.41297	0.0	0.08259	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.083

57	14.60	14.50	0.41327	0.0	0.08265	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.083
58	14.50	14.40	0.41358	0.0	0.08272	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.083
59	14.40	14.30	0.41388	0.0	0.08278	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.083
60	14.30	14.20	0.41418	0.0	0.08284	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.083
61	14.20	14.10	0.41448	0.0	0.08290	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.083
62	14.10	14.00	0.41479	0.0	0.08296	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.083
63	14.00	13.90	0.01871	0.0	0.00374	0.31	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
64	13.90	13.80	0.01901	0.0	0.00380	0.30	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
65	13.80	13.70	0.01932	0.0	0.00386	0.30	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
66	13.70	13.60	0.01962	0.0	0.00392	0.29	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
67	13.60	13.50	0.01992	0.0	0.00398	0.29	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
68	13.50	13.40	0.02023	0.0	0.00405	0.29	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
69	13.40	13.30	0.02053	0.0	0.00411	0.28	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
70	13.30	13.20	0.02083	0.0	0.00417	0.28	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
71	13.20	13.10	0.02114	0.0	0.00423	0.27	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
72	13.10	13.00	0.02144	0.0	0.00429	0.27	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
73	13.00	12.90	0.02174	0.0	0.00435	0.27	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
74	12.90	12.80	0.02204	0.0	0.00441	0.26	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
75	12.80	12.70	0.02235	0.0	0.00447	0.26	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.004
76	12.70	12.60	0.02265	0.0	0.00453	0.26	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
77	12.60	12.50	0.02295	0.0	0.00459	0.25	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
78	12.50	12.40	0.02326	0.0	0.00465	0.25	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
79	12.40	12.30	0.02356	0.0	0.00471	0.25	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
80	12.30	12.20	0.02386	0.0	0.00477	0.24	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
81	12.20	12.10	0.02417	0.0	0.00483	0.24	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
82	12.10	12.00	0.02447	0.0	0.00489	0.24	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
83	12.00	11.90	0.02477	0.0	0.00495	0.23	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
84	11.90	11.80	0.02507	0.0	0.00501	0.23	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
85	11.80	11.70	0.02538	0.0	0.00508	0.23	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
86	11.70	11.60	0.02568	0.0	0.00514	0.23	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
87	11.60	11.50	0.02598	0.0	0.00520	0.22	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
88	11.50	11.40	0.02629	0.0	0.00526	0.22	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
89	11.40	11.30	0.02659	0.0	0.00532	0.22	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
90	11.30	11.20	0.02689	0.0	0.00538	0.22	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
91	11.20	11.10	0.02720	0.0	0.00544	0.21	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
92	11.10	11.00	0.02750	0.0	0.00550	0.21	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.005
93	11.00	10.90	0.02780	0.0	0.00556	0.21	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
94	10.90	10.80	0.02810	0.0	0.00562	0.21	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
95	10.80	10.70	0.02841	0.0	0.00568	0.20	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
96	10.70	10.60	0.02871	0.0	0.00574	0.20	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
97	10.60	10.50	0.02901	0.0	0.00580	0.20	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
98	10.50	10.40	0.02932	0.0	0.00586	0.20	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
99	10.40	10.30	0.02962	0.0	0.00592	0.20	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
100	10.30	10.20	0.02992	0.0	0.00598	0.19	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
101	10.20	10.10	0.03023	0.0	0.00605	0.19	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
102	10.10	10.00	0.03053	0.0	0.00611	0.19	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
103	10.00	9.90	0.03093	0.3	0.00619	0.19	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
104	9.90	9.80	0.03124	0.3	0.00625	0.19	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
105	9.80	9.70	0.03154	0.3	0.00631	0.18	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
106	9.70	9.60	0.03184	0.3	0.00637	0.18	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006

107	9.60	9.50	0.03214	0.3	0.00643	0.18	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
108	9.50	9.40	0.03245	0.3	0.00649	0.18	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.006
109	9.40	9.30	0.03275	0.3	0.00655	0.18	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
110	9.30	9.20	0.03305	0.3	0.00661	0.18	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
111	9.20	9.10	0.03336	0.3	0.00667	0.17	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
112	9.10	9.00	0.03366	0.3	0.00673	0.17	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
113	9.00	8.90	0.03396	0.3	0.00679	0.17	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
114	8.90	8.80	0.03427	0.3	0.00685	0.17	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
115	8.80	8.70	0.03457	0.3	0.00691	0.17	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
116	8.70	8.60	0.03487	0.3	0.00697	0.17	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
117	8.60	8.50	0.03517	0.3	0.00703	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
118	8.50	8.40	0.03548	0.3	0.00710	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
119	8.40	8.30	0.03595	0.8	0.00719	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
120	8.30	8.20	0.03625	0.7	0.00725	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
121	8.20	8.10	0.03656	0.7	0.00731	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
122	8.10	8.00	0.03686	0.7	0.00737	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
123	8.00	7.90	0.03716	0.7	0.00743	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
124	7.90	7.80	0.03747	0.7	0.00749	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.007
125	7.80	7.70	0.03777	0.7	0.00755	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
126	7.70	7.60	0.03807	0.7	0.00761	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
127	7.60	7.50	0.03837	0.7	0.00767	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
128	7.50	7.40	0.03868	0.7	0.00774	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
129	7.40	7.30	0.03898	0.7	0.00780	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
130	7.30	7.20	0.03928	0.7	0.00786	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
131	7.20	7.10	0.03959	0.7	0.00792	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
132	7.10	7.00	0.03989	0.7	0.00798	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
133	7.00	6.90	0.04019	0.7	0.00804	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
134	6.90	6.80	0.04050	0.7	0.00810	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
135	6.80	6.70	0.04080	0.7	0.00816	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
136	6.70	6.60	0.04110	0.7	0.00822	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
137	6.60	6.50	0.04141	0.7	0.00828	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
138	6.50	6.40	0.04171	0.6	0.00834	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
139	6.40	6.30	0.04201	0.6	0.00840	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
140	6.30	6.20	0.04231	0.6	0.00846	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.008
141	6.20	6.10	0.04262	0.6	0.00852	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
142	6.10	6.00	0.04292	0.6	0.00858	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
143	6.00	5.90	0.04322	0.6	0.00864	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
144	5.90	5.80	0.04353	0.6	0.00871	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
145	5.80	5.70	0.04383	0.6	0.00877	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
146	5.70	5.60	0.04413	0.6	0.00883	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
147	5.60	5.50	0.04444	0.6	0.00889	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
148	5.50	5.40	0.04474	0.6	0.00895	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
149	5.40	5.30	0.04504	0.6	0.00901	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
150	5.30	5.20	0.04534	0.6	0.00907	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
151	5.20	5.10	0.04565	0.6	0.00913	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
152	5.10	5.00	0.04595	0.6	0.00919	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
153	5.00	4.90	0.04625	0.6	0.00925	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
154	4.90	4.80	0.04656	0.6	0.00931	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
155	4.80	4.70	0.04686	0.6	0.00937	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
156	4.70	4.60	0.04716	0.6	0.00943	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009

157	4.60	4.50	0.04747	0.6	0.00949	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.009
158	4.50	4.40	0.04777	0.6	0.00955	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.010
159	4.40	4.30	0.04807	0.6	0.00961	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.010
160	4.30	4.20	0.04837	0.6	0.00967	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.010
161	4.20	4.10	0.04868	0.6	0.00974	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.010
162	4.10	4.00	0.04898	0.6	0.00980	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.010
163	4.00	3.90	0.04928	0.5	0.00986	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.010
164	3.90	3.80	0.04959	0.5	0.00992	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.010
165	3.80	3.70	0.04989	0.5	0.00998	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.000	0.010
TOT					19.67				82500.00	165000.00					
AVG					0.0097		0.50	10.00			5.00				
CUM					19.67										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	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 *	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT
1	20.100	7.40	3.84	0.24	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.99	0.02	0.00	0.18	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
2	20.000	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.20	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
3	19.900	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.20	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
4	19.800	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.21	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
5	19.700	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.22	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
6	19.600	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.22	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
7	19.500	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.23	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
8	19.400	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.23	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
9	19.300	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.23	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
10	19.200	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.24	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
11	19.100	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.24	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
12	19.000	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.24	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
13	18.900	7.40	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.24	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
14	18.800	7.40	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.24	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
15	18.700	7.40	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
16	18.600	7.39	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
17	18.500	7.39	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
18	18.400	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
19	18.300	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
20	18.200	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
21	18.100	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
22	18.000	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
23	17.900	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
24	17.800	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
25	17.700	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
26	17.600	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
27	17.500	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
28	17.400	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
29	17.300	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00

30	17.200	7.39	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
31	17.100	7.39	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
32	17.000	7.39	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
33	16.900	7.38	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
34	16.800	7.38	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
35	16.700	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
36	16.600	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
37	16.500	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
38	16.400	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
39	16.300	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
40	16.200	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
41	16.100	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
42	16.000	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
43	15.900	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
44	15.800	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
45	15.700	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
46	15.600	7.38	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
47	15.500	7.38	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
48	15.400	7.38	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
49	15.300	7.37	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
50	15.200	7.37	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
51	15.100	7.37	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
52	15.000	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
53	14.900	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
54	14.800	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
55	14.700	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
56	14.600	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
57	14.500	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
58	14.400	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
59	14.300	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
60	14.200	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
61	14.100	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
62	14.000	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
63	13.900	7.37	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
64	13.800	7.37	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
65	13.700	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
66	13.600	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
67	13.500	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
68	13.400	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
69	13.300	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
70	13.200	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
71	13.100	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
72	13.000	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
73	12.900	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
74	12.800	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
75	12.700	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
76	12.600	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
77	12.500	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
78	12.400	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
79	12.300	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00

80	12.200	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
81	12.100	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
82	12.000	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
83	11.900	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
84	11.800	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
85	11.700	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
86	11.600	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
87	11.500	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
88	11.400	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
89	11.300	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
90	11.200	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
91	11.100	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
92	11.000	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
93	10.900	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
94	10.800	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
95	10.700	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
96	10.600	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
97	10.500	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
98	10.400	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
99	10.300	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
100	10.200	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
101	10.100	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
102	10.000	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
103	9.900	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
104	9.800	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
105	9.700	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
106	9.600	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
107	9.500	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
108	9.400	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
109	9.300	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
110	9.200	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
111	9.100	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
112	9.000	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
113	8.900	7.34	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
114	8.800	7.34	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
115	8.700	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
116	8.600	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
117	8.500	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
118	8.400	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
119	8.300	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
120	8.200	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
121	8.100	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
122	8.000	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
123	7.900	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
124	7.800	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
125	7.700	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
126	7.600	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
127	7.500	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
128	7.400	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
129	7.300	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

130	7.200	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
131	7.100	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
132	7.000	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
133	6.900	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
134	6.800	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
135	6.700	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
136	6.600	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
137	6.500	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
138	6.400	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
139	6.300	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
140	6.200	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
141	6.100	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
142	6.000	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
143	5.900	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
144	5.800	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
145	5.700	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
146	5.600	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
147	5.500	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
148	5.400	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
149	5.300	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
150	5.200	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
151	5.100	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
152	5.000	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
153	4.900	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
154	4.800	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
155	4.700	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
156	4.600	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
157	4.500	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
158	4.400	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
159	4.300	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
160	4.200	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
161	4.100	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
162	4.000	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
163	3.900	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
164	3.800	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
165	3.700	7.30	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 2.06 0.15 0.00 0.00 0.00 0.00 0.00 0.50 0.02 0.00 0.13 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
1	20.100	31.20	0.00	0.00	0.00	1.95	4.72	0.00	4.72	0.00	1.20	0.40	0.00	1.60	0.00	20.00	0.00	0.	0.00
2	20.000	31.21	0.00	0.00	0.00	2.20	4.74	0.00	4.74	0.00	1.20	0.40	0.00	1.60	0.00	20.00	0.00	0.	0.00
3	19.900	31.21	0.00	0.00	0.00	2.44	4.77	0.00	4.77	0.00	1.20	0.40	0.00	1.60	0.00	20.00	0.00	0.	0.00

4	19.800	31.22	0.00	0.00	0.00	2.67	4.79	0.00	4.79	0.00	1.20	0.40	0.00	1.60	0.00	20.00	0.00	0.	0.00
5	19.700	31.22	0.00	0.00	0.00	2.88	4.82	0.00	4.82	0.00	1.20	0.40	0.00	1.59	0.00	20.00	0.00	0.	0.00
6	19.600	31.23	0.00	0.00	0.00	3.08	4.84	0.00	4.84	0.00	1.20	0.40	0.00	1.59	0.00	20.00	0.00	0.	0.00
7	19.500	31.23	0.00	0.00	0.00	3.27	4.86	0.00	4.86	0.00	1.20	0.39	0.00	1.59	0.00	20.00	0.00	0.	0.00
8	19.400	31.24	0.00	0.00	0.00	3.45	4.89	0.00	4.89	0.00	1.20	0.39	0.00	1.59	0.00	20.00	0.00	0.	0.00
9	19.300	31.24	0.00	0.00	0.00	3.62	4.91	0.00	4.91	0.00	1.20	0.39	0.00	1.59	0.00	20.00	0.00	0.	0.00
10	19.200	31.25	0.00	0.00	0.00	3.78	4.94	0.00	4.94	0.00	1.20	0.39	0.00	1.59	0.00	20.00	0.00	0.	0.00
11	19.100	31.25	0.00	0.00	0.00	3.93	4.96	0.00	4.96	0.00	1.20	0.39	0.00	1.59	0.00	20.00	0.00	0.	0.00
12	19.000	31.26	0.00	0.00	0.00	4.08	4.98	0.00	4.98	0.00	1.19	0.39	0.00	1.59	0.00	20.00	0.00	0.	0.00
13	18.900	31.26	0.00	0.00	0.00	4.21	5.01	0.00	5.01	0.00	1.19	0.39	0.00	1.58	0.00	20.00	0.00	0.	0.00
14	18.800	31.27	0.00	0.00	0.00	4.34	5.03	0.00	5.03	0.00	1.19	0.39	0.00	1.58	0.00	20.00	0.00	0.	0.00
15	18.700	31.27	0.00	0.00	0.00	4.46	5.05	0.00	5.05	0.00	1.19	0.39	0.00	1.58	0.00	20.00	0.00	0.	0.00
16	18.600	31.28	0.00	0.00	0.00	4.57	5.08	0.00	5.08	0.00	1.19	0.39	0.00	1.58	0.00	20.00	0.00	0.	0.00
17	18.500	31.28	0.00	0.00	0.00	4.68	5.10	0.00	5.10	0.00	1.19	0.39	0.00	1.58	0.00	20.00	0.00	0.	0.00
18	18.400	31.29	0.00	0.00	0.00	4.78	5.12	0.00	5.12	0.00	1.19	0.38	0.00	1.58	0.00	20.00	0.00	0.	0.00
19	18.300	31.29	0.00	0.00	0.00	4.88	5.15	0.00	5.15	0.00	1.19	0.38	0.00	1.58	0.00	20.00	0.00	0.	0.00
20	18.200	31.30	0.00	0.00	0.00	4.97	5.17	0.00	5.17	0.00	1.19	0.38	0.00	1.58	0.00	20.00	0.00	0.	0.00
21	18.100	31.30	0.00	0.00	0.00	5.06	5.19	0.00	5.19	0.00	1.19	0.38	0.00	1.57	0.00	20.00	0.00	0.	0.00
22	18.000	31.31	0.00	0.00	0.00	5.14	5.21	0.00	5.21	0.00	1.19	0.38	0.00	1.57	0.00	20.00	0.00	0.	0.00
23	17.900	31.31	0.00	0.00	0.00	5.22	5.24	0.00	5.24	0.00	1.19	0.38	0.00	1.57	0.00	20.00	0.00	0.	0.00
24	17.800	31.32	0.00	0.00	0.00	5.29	5.26	0.00	5.26	0.00	1.19	0.38	0.00	1.57	0.00	20.00	0.00	0.	0.00
25	17.700	31.32	0.00	0.00	0.00	5.36	5.28	0.00	5.28	0.00	1.19	0.38	0.00	1.57	0.00	20.00	0.00	0.	0.00
26	17.600	31.33	0.00	0.00	0.00	5.42	5.30	0.00	5.30	0.00	1.19	0.38	0.00	1.57	0.00	20.00	0.00	0.	0.00
27	17.500	31.33	0.00	0.00	0.00	5.48	5.33	0.00	5.33	0.00	1.19	0.38	0.00	1.57	0.00	20.00	0.00	0.	0.00
28	17.400	31.34	0.00	0.00	0.00	5.54	5.35	0.00	5.35	0.00	1.19	0.38	0.00	1.57	0.00	20.00	0.00	0.	0.00
29	17.300	31.34	0.00	0.00	0.00	5.60	5.37	0.00	5.37	0.00	1.19	0.37	0.00	1.57	0.00	20.00	0.00	0.	0.00
30	17.200	31.35	0.00	0.00	0.00	5.65	5.39	0.00	5.39	0.00	1.19	0.37	0.00	1.56	0.00	20.00	0.00	0.	0.00
31	17.100	31.35	0.00	0.00	0.00	5.70	5.41	0.00	5.41	0.00	1.19	0.37	0.00	1.56	0.00	20.00	0.00	0.	0.00
32	17.000	31.36	0.00	0.00	0.00	5.74	5.43	0.00	5.43	0.00	1.19	0.37	0.00	1.56	0.00	20.00	0.00	0.	0.00
33	16.900	31.36	0.00	0.00	0.00	5.79	5.46	0.00	5.46	0.00	1.19	0.37	0.00	1.56	0.00	20.00	0.00	0.	0.00
34	16.800	31.36	0.00	0.00	0.00	5.83	5.48	0.00	5.48	0.00	1.19	0.37	0.00	1.56	0.00	20.00	0.00	0.	0.00
35	16.700	31.37	0.00	0.00	0.00	5.87	5.50	0.00	5.50	0.00	1.19	0.37	0.00	1.56	0.00	20.00	0.00	0.	0.00
36	16.600	31.37	0.00	0.00	0.00	5.90	5.52	0.00	5.52	0.00	1.18	0.37	0.00	1.56	0.00	20.00	0.00	0.	0.00
37	16.500	31.38	0.00	0.00	0.00	5.94	5.54	0.00	5.54	0.00	1.18	0.37	0.00	1.56	0.00	20.00	0.00	0.	0.00
38	16.400	31.38	0.00	0.00	0.00	5.97	5.56	0.00	5.56	0.00	1.18	0.37	0.01	1.55	0.00	20.00	0.00	0.	0.00
39	16.300	31.39	0.00	0.00	0.00	6.00	5.58	0.00	5.58	0.00	1.18	0.36	0.01	1.55	0.00	20.00	0.00	0.	0.00
40	16.200	31.39	0.00	0.00	0.00	6.03	5.60	0.00	5.60	0.00	1.18	0.36	0.01	1.55	0.00	20.00	0.00	0.	0.00
41	16.100	31.40	0.00	0.00	0.00	6.06	5.62	0.00	5.62	0.00	1.18	0.36	0.01	1.55	0.00	20.00	0.00	0.	0.00
42	16.000	31.40	0.00	0.00	0.00	6.08	5.64	0.00	5.64	0.00	1.18	0.36	0.01	1.55	0.00	20.00	0.00	0.	0.00
43	15.900	31.41	0.00	0.00	0.00	6.11	5.66	0.00	5.66	0.00	1.18	0.36	0.01	1.55	0.00	20.00	0.00	0.	0.00
44	15.800	31.41	0.00	0.00	0.00	6.13	5.68	0.00	5.68	0.00	1.18	0.36	0.01	1.55	0.00	20.00	0.00	0.	0.00
45	15.700	31.42	0.00	0.00	0.00	6.15	5.70	0.00	5.70	0.00	1.18	0.36	0.01	1.55	0.00	20.00	0.00	0.	0.00
46	15.600	31.42	0.00	0.00	0.00	6.17	5.72	0.00	5.72	0.00	1.18	0.36	0.01	1.55	0.00	20.00	0.00	0.	0.00
47	15.500	31.43	0.00	0.00	0.00	6.19	5.74	0.00	5.74	0.00	1.18	0.36	0.01	1.54	0.00	20.00	0.00	0.	0.00
48	15.400	31.43	0.00	0.00	0.00	6.21	5.76	0.00	5.76	0.00	1.18	0.36	0.01	1.54	0.00	20.00	0.00	0.	0.00
49	15.300	31.44	0.00	0.00	0.00	6.23	5.78	0.00	5.78	0.00	1.18	0.36	0.01	1.54	0.00	20.00	0.00	0.	0.00
50	15.200	31.44	0.00	0.00	0.00	6.24	5.80	0.00	5.80	0.00	1.18	0.35	0.01	1.54	0.00	20.00	0.00	0.	0.00
51	15.100	31.45	0.00	0.00	0.00	6.26	5.82	0.00	5.82	0.00	1.18	0.35	0.01	1.54	0.00	20.00	0.00	0.	0.00
52	15.000	31.45	0.00	0.00	0.00	6.27	5.84	0.00	5.84	0.00	1.18	0.35	0.01	1.54	0.00	20.00	0.00	0.	0.00
53	14.900	31.46	0.00	0.00	0.00	6.29	5.86	0.00	5.86	0.00	1.18	0.35	0.01	1.54	0.00	20.00	0.00	0.	0.00

54	14.800	31.46	0.00	0.00	0.00	6.30	5.88	0.00	5.88	0.00	1.18	0.35	0.01	1.54	0.00	20.00	0.00	0.	0.00
55	14.700	31.47	0.00	0.00	0.00	6.31	5.90	0.00	5.90	0.00	1.18	0.35	0.01	1.54	0.00	20.00	0.00	0.	0.00
56	14.600	31.47	0.00	0.00	0.00	6.32	5.91	0.00	5.91	0.00	1.18	0.35	0.01	1.53	0.00	20.00	0.00	0.	0.00
57	14.500	31.48	0.00	0.00	0.00	6.33	5.93	0.00	5.93	0.00	1.18	0.35	0.01	1.53	0.00	20.00	0.00	0.	0.00
58	14.400	31.48	0.00	0.00	0.00	6.34	5.95	0.00	5.95	0.00	1.18	0.35	0.01	1.53	0.00	20.00	0.00	0.	0.00
59	14.300	31.49	0.00	0.00	0.00	6.35	5.97	0.00	5.97	0.00	1.18	0.35	0.01	1.53	0.00	20.00	0.00	0.	0.00
60	14.200	31.49	0.00	0.00	0.00	6.36	5.99	0.00	5.99	0.00	1.18	0.35	0.01	1.53	0.00	20.00	0.00	0.	0.00
61	14.100	31.50	0.00	0.00	0.00	6.37	6.01	0.00	6.01	0.00	1.17	0.35	0.01	1.53	0.00	20.00	0.00	0.	0.00
62	14.000	31.50	0.00	0.00	0.00	6.38	6.03	0.00	6.03	0.00	1.17	0.34	0.01	1.53	0.00	20.00	0.00	0.	0.00
63	13.900	31.51	0.00	0.00	0.00	6.35	6.04	0.00	6.04	0.00	1.17	0.34	0.01	1.53	0.00	20.00	0.00	0.	0.00
64	13.800	31.51	0.00	0.00	0.00	6.02	6.41	0.00	6.41	0.00	1.17	0.33	0.01	1.50	0.00	20.00	0.00	0.	0.00
65	13.700	31.52	0.00	0.00	0.00	5.79	6.74	0.00	6.74	0.00	1.16	0.31	0.01	1.48	0.00	20.00	0.00	0.	0.00
66	13.600	31.52	0.00	0.00	0.00	5.63	7.04	0.00	7.04	0.00	1.15	0.30	0.01	1.45	0.00	20.00	0.00	0.	0.00
67	13.500	31.52	0.00	0.00	0.00	5.52	7.31	0.00	7.31	0.00	1.14	0.29	0.00	1.43	0.00	20.00	0.00	0.	0.00
68	13.400	31.53	0.00	0.00	0.00	5.44	7.55	0.00	7.55	0.00	1.13	0.28	0.00	1.41	0.00	20.00	0.00	0.	0.00
69	13.300	31.53	0.00	0.00	0.00	5.37	7.77	0.00	7.77	0.00	1.13	0.27	0.00	1.39	0.00	20.00	0.00	0.	0.00
70	13.200	31.54	0.00	0.00	0.00	5.32	7.97	0.00	7.97	0.00	1.12	0.26	0.00	1.38	0.00	20.00	0.00	0.	0.00
71	13.100	31.54	0.00	0.00	0.00	5.28	8.15	0.00	8.15	0.00	1.11	0.25	0.00	1.36	0.00	20.00	0.00	0.	0.00
72	13.000	31.55	0.00	0.00	0.00	5.25	8.31	0.00	8.31	0.00	1.11	0.24	0.00	1.35	0.00	20.00	0.00	0.	0.00
73	12.900	31.55	0.00	0.00	0.00	5.22	8.46	0.00	8.46	0.00	1.10	0.24	0.00	1.34	0.00	20.00	0.00	0.	0.00
74	12.800	31.56	0.00	0.00	0.00	5.20	8.60	0.00	8.60	0.00	1.10	0.23	0.00	1.32	0.00	20.00	0.00	0.	0.00
75	12.700	31.56	0.00	0.00	0.00	5.18	8.72	0.00	8.72	0.00	1.09	0.22	0.00	1.31	0.00	20.00	0.00	0.	0.00
76	12.600	31.57	0.00	0.00	0.00	5.16	8.84	0.00	8.84	0.00	1.08	0.22	0.00	1.30	0.00	20.00	0.00	0.	0.00
77	12.500	31.57	0.00	0.00	0.00	5.15	8.94	0.00	8.94	0.00	1.08	0.21	0.00	1.29	0.00	20.00	0.00	0.	0.00
78	12.400	31.58	0.00	0.00	0.00	5.13	9.03	0.00	9.03	0.00	1.07	0.21	0.00	1.28	0.00	20.00	0.00	0.	0.00
79	12.300	31.58	0.00	0.00	0.00	5.12	9.12	0.00	9.12	0.00	1.07	0.21	0.00	1.27	0.00	20.00	0.00	0.	0.00
80	12.200	31.59	0.00	0.00	0.00	5.11	9.20	0.00	9.20	0.00	1.06	0.20	0.00	1.27	0.00	20.00	0.00	0.	0.00
81	12.100	31.59	0.00	0.00	0.00	5.09	9.27	0.00	9.27	0.00	1.06	0.20	0.00	1.26	0.00	20.00	0.00	0.	0.00
82	12.000	31.60	0.00	0.00	0.00	5.08	9.34	0.00	9.34	0.00	1.06	0.19	0.00	1.25	0.00	20.00	0.00	0.	0.00
83	11.900	31.60	0.00	0.00	0.00	5.07	9.40	0.00	9.40	0.00	1.05	0.19	0.00	1.24	0.00	20.00	0.00	0.	0.00
84	11.800	31.61	0.00	0.00	0.00	5.07	9.46	0.00	9.46	0.00	1.05	0.19	0.00	1.24	0.00	20.00	0.00	0.	0.00
85	11.700	31.61	0.00	0.00	0.00	5.06	9.51	0.00	9.51	0.00	1.04	0.19	0.00	1.23	0.00	20.00	0.00	0.	0.00
86	11.600	31.62	0.00	0.00	0.00	5.05	9.56	0.00	9.56	0.00	1.04	0.18	0.00	1.22	0.00	20.00	0.00	0.	0.00
87	11.500	31.62	0.00	0.00	0.00	5.04	9.60	0.00	9.60	0.00	1.03	0.18	0.00	1.22	0.00	20.00	0.00	0.	0.00
88	11.400	31.63	0.00	0.00	0.00	5.04	9.64	0.00	9.64	0.00	1.03	0.18	0.00	1.21	0.00	20.00	0.00	0.	0.00
89	11.300	31.63	0.00	0.00	0.00	5.03	9.68	0.00	9.68	0.00	1.03	0.18	0.00	1.21	0.00	20.00	0.00	0.	0.00
90	11.200	31.64	0.00	0.00	0.00	5.02	9.71	0.00	9.71	0.00	1.02	0.18	0.00	1.20	0.00	20.00	0.00	0.	0.00
91	11.100	31.64	0.00	0.00	0.00	5.02	9.75	0.00	9.75	0.00	1.02	0.17	0.00	1.19	0.00	20.00	0.00	0.	0.00
92	11.000	31.65	0.00	0.00	0.00	5.01	9.78	0.00	9.78	0.00	1.02	0.17	0.00	1.19	0.00	20.00	0.00	0.	0.00
93	10.900	31.65	0.00	0.00	0.00	5.01	9.80	0.00	9.80	0.00	1.01	0.17	0.00	1.18	0.00	20.00	0.00	0.	0.00
94	10.800	31.66	0.00	0.00	0.00	5.01	9.83	0.00	9.83	0.00	1.01	0.17	0.00	1.18	0.00	20.00	0.00	0.	0.00
95	10.700	31.66	0.00	0.00	0.00	5.00	9.85	0.00	9.85	0.00	1.01	0.17	0.00	1.18	0.00	20.00	0.00	0.	0.00
96	10.600	31.67	0.00	0.00	0.00	5.00	9.87	0.00	9.87	0.00	1.00	0.17	0.00	1.17	0.00	20.00	0.00	0.	0.00
97	10.500	31.67	0.00	0.00	0.00	4.99	9.89	0.00	9.89	0.00	1.00	0.17	0.00	1.17	0.00	20.00	0.00	0.	0.00
98	10.400	31.68	0.00	0.00	0.00	4.99	9.91	0.00	9.91	0.00	1.00	0.17	0.00	1.16	0.00	20.00	0.00	0.	0.00
99	10.300	31.68	0.00	0.00	0.00	4.99	9.93	0.00	9.93	0.00	0.99	0.16	0.00	1.16	0.00	20.00	0.00	0.	0.00
100	10.200	31.68	0.00	0.00	0.00	4.98	9.95	0.00	9.95	0.00	0.99	0.16	0.00	1.16	0.00	20.00	0.00	0.	0.00
101	10.100	31.69	0.00	0.00	0.00	4.98	9.96	0.00	9.96	0.00	0.99	0.16	0.00	1.15	0.00	20.00	0.00	0.	0.00
102	10.000	31.69	0.00	0.00	0.00	4.98	9.98	0.00	9.98	0.00	0.99	0.16	0.00	1.15	0.00	20.00	0.00	0.	0.00
103	9.900	31.70	0.00	0.00	0.00	4.97	10.10	0.00	10.10	0.00	0.99	0.16	0.00	1.15	0.00	20.00	0.00	0.	0.00

104	9.800	31.70	0.00	0.00	0.00	4.97	10.10	0.00	10.10	0.00	0.98	0.16	0.00	1.15	0.00	20.00	0.00	0.	0.00
105	9.700	31.71	0.00	0.00	0.00	4.96	10.11	0.00	10.11	0.00	0.98	0.16	0.00	1.14	0.00	20.00	0.00	0.	0.00
106	9.600	31.71	0.00	0.00	0.00	4.96	10.11	0.00	10.11	0.00	0.98	0.16	0.00	1.14	0.00	20.00	0.00	0.	0.00
107	9.500	31.72	0.00	0.00	0.00	4.95	10.12	0.00	10.12	0.00	0.98	0.16	0.00	1.14	0.00	20.00	0.00	0.	0.00
108	9.400	31.72	0.00	0.00	0.00	4.95	10.12	0.00	10.12	0.00	0.97	0.16	0.00	1.13	0.00	20.00	0.00	0.	0.00
109	9.300	31.73	0.00	0.00	0.00	4.95	10.13	0.00	10.13	0.00	0.97	0.16	0.00	1.13	0.00	20.00	0.00	0.	0.00
110	9.200	31.73	0.00	0.00	0.00	4.95	10.13	0.00	10.13	0.00	0.97	0.16	0.00	1.13	0.00	20.00	0.00	0.	0.00
111	9.100	31.74	0.00	0.00	0.00	4.95	10.13	0.00	10.13	0.00	0.97	0.16	0.00	1.13	0.00	20.00	0.00	0.	0.00
112	9.000	31.74	0.00	0.00	0.00	4.94	10.13	0.00	10.13	0.00	0.97	0.16	0.00	1.12	0.00	20.00	0.00	0.	0.00
113	8.900	31.75	0.00	0.00	0.00	4.94	10.14	0.00	10.14	0.00	0.96	0.16	0.00	1.12	0.00	20.00	0.00	0.	0.00
114	8.800	31.75	0.00	0.00	0.00	4.94	10.14	0.00	10.14	0.00	0.96	0.16	0.00	1.12	0.00	20.00	0.00	0.	0.00
115	8.700	31.76	0.00	0.00	0.00	4.94	10.14	0.00	10.14	0.00	0.96	0.16	0.00	1.11	0.00	20.00	0.00	0.	0.00
116	8.600	31.76	0.00	0.00	0.00	4.94	10.14	0.00	10.14	0.00	0.96	0.16	0.00	1.11	0.00	20.00	0.00	0.	0.00
117	8.500	31.77	0.00	0.00	0.00	4.94	10.15	0.00	10.15	0.00	0.96	0.15	0.00	1.11	0.00	20.00	0.00	0.	0.00
118	8.400	31.77	0.00	0.00	0.00	4.94	10.15	0.00	10.15	0.00	0.95	0.15	0.00	1.11	0.00	20.00	0.00	0.	0.00
119	8.300	31.78	0.00	0.00	0.00	4.93	10.31	0.00	10.31	0.00	0.95	0.16	0.00	1.11	0.00	20.00	0.00	0.	0.00
120	8.200	31.78	0.00	0.00	0.00	4.93	10.30	0.00	10.30	0.00	0.95	0.16	0.00	1.11	0.00	20.00	0.00	0.	0.00
121	8.100	31.79	0.00	0.00	0.00	4.92	10.29	0.00	10.29	0.00	0.95	0.16	0.00	1.11	0.00	20.00	0.00	0.	0.00
122	8.000	31.79	0.00	0.00	0.00	4.92	10.29	0.00	10.29	0.00	0.95	0.16	0.00	1.11	0.00	20.00	0.00	0.	0.00
123	7.900	31.80	0.00	0.00	0.00	4.92	10.28	0.00	10.28	0.00	0.95	0.16	0.00	1.10	0.00	20.00	0.00	0.	0.00
124	7.800	31.80	0.00	0.00	0.00	4.91	10.28	0.00	10.28	0.00	0.95	0.16	0.00	1.10	0.00	20.00	0.00	0.	0.00
125	7.700	31.81	0.00	0.00	0.00	4.91	10.27	0.00	10.27	0.00	0.94	0.16	0.00	1.10	0.00	20.00	0.00	0.	0.00
126	7.600	31.81	0.00	0.00	0.00	4.91	10.27	0.00	10.27	0.00	0.94	0.15	0.00	1.10	0.00	20.00	0.00	0.	0.00
127	7.500	31.82	0.00	0.00	0.00	4.91	10.26	0.00	10.26	0.00	0.94	0.15	0.00	1.09	0.00	20.00	0.00	0.	0.00
128	7.400	31.82	0.00	0.00	0.00	4.91	10.26	0.00	10.26	0.00	0.94	0.15	0.00	1.09	0.00	20.00	0.00	0.	0.00
129	7.300	31.83	0.00	0.00	0.00	4.91	10.25	0.00	10.25	0.00	0.94	0.15	0.00	1.09	0.00	20.00	0.00	0.	0.00
130	7.200	31.83	0.00	0.00	0.00	4.91	10.25	0.00	10.25	0.00	0.94	0.15	0.00	1.09	0.00	20.00	0.00	0.	0.00
131	7.100	31.84	0.00	0.00	0.00	4.91	10.25	0.00	10.25	0.00	0.93	0.15	0.00	1.09	0.00	20.00	0.00	0.	0.00
132	7.000	31.84	0.00	0.00	0.00	4.91	10.24	0.00	10.24	0.00	0.93	0.15	0.00	1.09	0.00	20.00	0.00	0.	0.00
133	6.900	31.84	0.00	0.00	0.00	4.91	10.24	0.00	10.24	0.00	0.93	0.15	0.00	1.08	0.00	20.00	0.00	0.	0.00
134	6.800	31.85	0.00	0.00	0.00	4.91	10.23	0.00	10.23	0.00	0.93	0.15	0.00	1.08	0.00	20.00	0.00	0.	0.00
135	6.700	31.85	0.00	0.00	0.00	4.91	10.23	0.00	10.23	0.00	0.93	0.15	0.00	1.08	0.00	20.00	0.00	0.	0.00
136	6.600	31.86	0.00	0.00	0.00	4.91	10.23	0.00	10.23	0.00	0.93	0.15	0.00	1.08	0.00	20.00	0.00	0.	0.00
137	6.500	31.86	0.00	0.00	0.00	4.91	10.22	0.00	10.22	0.00	0.93	0.15	0.00	1.08	0.00	20.00	0.00	0.	0.00
138	6.400	31.87	0.00	0.00	0.00	4.91	10.22	0.00	10.22	0.00	0.93	0.15	0.00	1.07	0.00	20.00	0.00	0.	0.00
139	6.300	31.87	0.00	0.00	0.00	4.91	10.22	0.00	10.22	0.00	0.92	0.15	0.00	1.07	0.00	20.00	0.00	0.	0.00
140	6.200	31.88	0.00	0.00	0.00	4.91	10.21	0.00	10.21	0.00	0.92	0.15	0.00	1.07	0.00	20.00	0.00	0.	0.00
141	6.100	31.88	0.00	0.00	0.00	4.91	10.21	0.00	10.21	0.00	0.92	0.15	0.00	1.07	0.00	20.00	0.00	0.	0.00
142	6.000	31.89	0.00	0.00	0.00	4.91	10.21	0.00	10.21	0.00	0.92	0.15	0.00	1.07	0.00	20.00	0.00	0.	0.00
143	5.900	31.89	0.00	0.00	0.00	4.91	10.20	0.00	10.20	0.00	0.92	0.15	0.00	1.07	0.00	20.00	0.00	0.	0.00
144	5.800	31.90	0.00	0.00	0.00	4.91	10.20	0.00	10.20	0.00	0.92	0.15	0.00	1.07	0.00	20.00	0.00	0.	0.00
145	5.700	31.90	0.00	0.00	0.00	4.91	10.20	0.00	10.20	0.00	0.92	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00
146	5.600	31.91	0.00	0.00	0.00	4.91	10.19	0.00	10.19	0.00	0.92	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00
147	5.500	31.91	0.00	0.00	0.00	4.91	10.19	0.00	10.19	0.00	0.91	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00
148	5.400	31.92	0.00	0.00	0.00	4.90	10.19	0.00	10.19	0.00	0.91	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00
149	5.300	31.92	0.00	0.00	0.00	4.90	10.19	0.00	10.19	0.00	0.91	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00
150	5.200	31.93	0.00	0.00	0.00	4.90	10.18	0.00	10.18	0.00	0.91	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00
151	5.100	31.93	0.00	0.00	0.00	4.90	10.18	0.00	10.18	0.00	0.91	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00
152	5.000	31.94	0.00	0.00	0.00	4.90	10.18	0.00	10.18	0.00	0.91	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00
153	4.900	31.94	0.00	0.00	0.00	4.90	10.18	0.00	10.18	0.00	0.91	0.15	0.00	1.05	0.00	20.00	0.00	0.	0.00

154	4.800	31.95	0.00	0.00	0.00	4.90	10.17	0.00	10.17	0.00	0.91	0.14	0.00	1.05	0.00	20.00	0.00	0.	0.00
155	4.700	31.95	0.00	0.00	0.00	4.90	10.17	0.00	10.17	0.00	0.91	0.14	0.00	1.05	0.00	20.00	0.00	0.	0.00
156	4.600	31.96	0.00	0.00	0.00	4.90	10.17	0.00	10.17	0.00	0.91	0.14	0.00	1.05	0.00	20.00	0.00	0.	0.00
157	4.500	31.96	0.00	0.00	0.00	4.90	10.17	0.00	10.17	0.00	0.90	0.14	0.00	1.05	0.00	20.00	0.00	0.	0.00
158	4.400	31.97	0.00	0.00	0.00	4.90	10.16	0.00	10.16	0.00	0.90	0.14	0.00	1.05	0.00	20.00	0.00	0.	0.00
159	4.300	31.97	0.00	0.00	0.00	4.90	10.16	0.00	10.16	0.00	0.90	0.14	0.00	1.05	0.00	20.00	0.00	0.	0.00
160	4.200	31.98	0.00	0.00	0.00	4.90	10.16	0.00	10.16	0.00	0.90	0.14	0.00	1.05	0.00	20.00	0.00	0.	0.00
161	4.100	31.98	0.00	0.00	0.00	4.90	10.16	0.00	10.16	0.00	0.90	0.14	0.00	1.04	0.00	20.00	0.00	0.	0.00
162	4.000	31.99	0.00	0.00	0.00	4.90	10.16	0.00	10.16	0.00	0.90	0.14	0.00	1.04	0.00	20.00	0.00	0.	0.00
163	3.900	31.99	0.00	0.00	0.00	4.90	10.15	0.00	10.15	0.00	0.90	0.14	0.00	1.04	0.00	20.00	0.00	0.	0.00
164	3.800	32.00	0.00	0.00	0.00	4.90	10.15	0.00	10.15	0.00	0.90	0.14	0.00	1.04	0.00	20.00	0.00	0.	0.00
165	3.700	32.00	0.00	0.00	0.00	4.90	10.15	0.00	10.15	0.00	0.90	0.14	0.00	1.04	0.00	20.00	0.00	0.	0.00

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

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
180	UPR RCH	0.04989	32.00	0.00	0.00	0.00	4.90	10.15	0.00	10.15	0.00	0.90	0.14	0.00	0.00	20.00	0.00	0.00
180	TRIB	0.39600	32.00	0.00	0.00	0.00	3.88	6.23	0.00	6.23	0.00	1.07	0.33	0.01	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
180	3.70	3.60	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
181	3.60	3.50	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
182	3.50	3.40	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
183	3.40	3.30	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
184	3.30	3.20	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
185	3.20	3.10	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
186	3.10	3.00	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
187	3.00	2.90	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
188	2.90	2.80	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
189	2.80	2.70	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
190	2.70	2.60	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
191	2.60	2.50	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
192	2.50	2.40	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
193	2.40	2.30	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
194	2.30	2.20	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
195	2.20	2.10	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
196	2.10	2.00	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008

197	2.00	1.90	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
198	1.90	1.80	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
199	1.80	1.70	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
200	1.70	1.60	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
201	1.60	1.50	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
202	1.50	1.40	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
203	1.40	1.30	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
204	1.30	1.20	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
205	1.20	1.10	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
206	1.10	1.00	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
207	1.00	0.90	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
208	0.90	0.80	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
209	0.80	0.70	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
210	0.70	0.60	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
211	0.60	0.50	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
212	0.50	0.40	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
213	0.40	0.30	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
214	0.30	0.20	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
215	0.20	0.10	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
216	0.10	0.00	0.44589	0.1	0.00756	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.000	0.008
TOT					5.66			218114.98	242350.00						
AVG					0.0076		0.90	65.50			58.95				
CUM					25.34										

********** 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 *	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
180	3.600	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
181	3.500	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
182	3.400	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
183	3.300	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
184	3.200	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
185	3.100	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
186	3.000	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
187	2.900	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
188	2.800	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
189	2.700	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
190	2.600	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
191	2.500	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
192	2.400	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
193	2.300	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
194	2.200	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
195	2.100	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
196	2.000	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
197	1.900	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	

198	1.800	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
199	1.700	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
200	1.600	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
201	1.500	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
202	1.400	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
203	1.300	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
204	1.200	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
205	1.100	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
206	1.000	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
207	0.900	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
208	0.800	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
209	0.700	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
210	0.600	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
211	0.500	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
212	0.400	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
213	0.300	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
214	0.200	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
215	0.100	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
216	0.000	7.30	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.78 0.15 0.00 0.00 0.00 0.00 0.00 0.50 0.02 0.00 0.13 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
180	3.600	32.00	0.00	0.00	0.00	4.10	6.89	0.00	6.89	0.00	1.05	0.30	0.00	1.35	0.00	20.00	0.00	0.	0.00
181	3.500	32.00	0.00	0.00	0.00	4.19	7.10	0.00	7.10	0.00	1.04	0.29	0.00	1.34	0.00	20.00	0.00	0.	0.00
182	3.400	32.00	0.00	0.00	0.00	4.26	7.30	0.00	7.30	0.00	1.04	0.29	0.00	1.33	0.00	20.00	0.00	0.	0.00
183	3.300	32.00	0.00	0.00	0.00	4.31	7.49	0.00	7.49	0.00	1.03	0.28	0.00	1.31	0.00	20.00	0.00	0.	0.00
184	3.200	32.00	0.00	0.00	0.00	4.35	7.67	0.00	7.67	0.00	1.03	0.27	0.00	1.30	0.00	20.00	0.00	0.	0.00
185	3.100	32.00	0.00	0.00	0.00	4.38	7.85	0.00	7.85	0.00	1.03	0.27	0.00	1.29	0.00	20.00	0.00	0.	0.00
186	3.000	32.00	0.00	0.00	0.00	4.41	8.02	0.00	8.02	0.00	1.02	0.26	0.00	1.28	0.00	20.00	0.00	0.	0.00
187	2.900	32.00	0.00	0.00	0.00	4.42	8.19	0.00	8.19	0.00	1.02	0.25	0.00	1.27	0.00	20.00	0.00	0.	0.00
188	2.800	32.00	0.00	0.00	0.00	4.43	8.35	0.00	8.35	0.00	1.01	0.25	0.00	1.26	0.00	20.00	0.00	0.	0.00
189	2.700	32.00	0.00	0.00	0.00	4.43	8.50	0.00	8.50	0.00	1.01	0.24	0.00	1.25	0.00	20.00	0.00	0.	0.00
190	2.600	32.00	0.00	0.00	0.00	4.43	8.65	0.00	8.65	0.00	1.01	0.24	0.00	1.24	0.00	20.00	0.00	0.	0.00
191	2.500	32.00	0.00	0.00	0.00	4.42	8.79	0.00	8.79	0.00	1.00	0.23	0.00	1.23	0.00	20.00	0.00	0.	0.00
192	2.400	32.00	0.00	0.00	0.00	4.41	8.92	0.00	8.92	0.00	1.00	0.23	0.00	1.23	0.00	20.00	0.00	0.	0.00
193	2.300	32.00	0.00	0.00	0.00	4.40	9.05	0.00	9.05	0.00	0.99	0.22	0.00	1.22	0.00	20.00	0.00	0.	0.00
194	2.200	32.00	0.00	0.00	0.00	4.39	9.18	0.00	9.18	0.00	0.99	0.22	0.00	1.21	0.00	20.00	0.00	0.	0.00
195	2.100	32.00	0.00	0.00	0.00	4.37	9.30	0.00	9.30	0.00	0.99	0.21	0.00	1.20	0.00	20.00	0.00	0.	0.00
196	2.000	32.00	0.00	0.00	0.00	4.36	9.42	0.00	9.42	0.00	0.98	0.21	0.00	1.19	0.00	20.00	0.00	0.	0.00
197	1.900	32.00	0.00	0.00	0.00	4.34	9.53	0.00	9.53	0.00	0.98	0.20	0.00	1.18	0.00	20.00	0.00	0.	0.00
198	1.800	32.00	0.00	0.00	0.00	4.32	9.64	0.00	9.64	0.00	0.98	0.20	0.00	1.18	0.00	20.00	0.00	0.	0.00
199	1.700	32.00	0.00	0.00	0.00	4.30	9.74	0.00	9.74	0.00	0.97	0.20	0.00	1.17	0.00	20.00	0.00	0.	0.00

200	1.600	32.00	0.00	0.00	0.00	4.28	9.84	0.00	9.84	0.00	0.97	0.19	0.00	1.16	0.00	20.00	0.00	0.	0.00
201	1.500	32.00	0.00	0.00	0.00	4.26	9.93	0.00	9.93	0.00	0.96	0.19	0.00	1.15	0.00	20.00	0.00	0.	0.00
202	1.400	32.00	0.00	0.00	0.00	4.24	10.03	0.00	10.03	0.00	0.96	0.19	0.00	1.15	0.00	20.00	0.00	0.	0.00
203	1.300	32.00	0.00	0.00	0.00	4.22	10.11	0.00	10.11	0.00	0.96	0.18	0.00	1.14	0.00	20.00	0.00	0.	0.00
204	1.200	32.00	0.00	0.00	0.00	4.20	10.20	0.00	10.20	0.00	0.95	0.18	0.00	1.13	0.00	20.00	0.00	0.	0.00
205	1.100	32.00	0.00	0.00	0.00	4.18	10.28	0.00	10.28	0.00	0.95	0.18	0.00	1.13	0.00	20.00	0.00	0.	0.00
206	1.000	32.00	0.00	0.00	0.00	4.16	10.36	0.00	10.36	0.00	0.95	0.17	0.00	1.12	0.00	20.00	0.00	0.	0.00
207	0.900	32.00	0.00	0.00	0.00	4.14	10.43	0.00	10.43	0.00	0.94	0.17	0.00	1.11	0.00	20.00	0.00	0.	0.00
208	0.800	32.00	0.00	0.00	0.00	4.13	10.51	0.00	10.51	0.00	0.94	0.17	0.00	1.11	0.00	20.00	0.00	0.	0.00
209	0.700	32.00	0.00	0.00	0.00	4.11	10.58	0.00	10.58	0.00	0.94	0.16	0.00	1.10	0.00	20.00	0.00	0.	0.00
210	0.600	32.00	0.00	0.00	0.00	4.09	10.64	0.00	10.64	0.00	0.93	0.16	0.00	1.09	0.00	20.00	0.00	0.	0.00
211	0.500	32.00	0.00	0.00	0.00	4.07	10.71	0.00	10.71	0.00	0.93	0.16	0.00	1.09	0.00	20.00	0.00	0.	0.00
212	0.400	32.00	0.00	0.00	0.00	4.06	10.77	0.00	10.77	0.00	0.92	0.16	0.00	1.08	0.00	20.00	0.00	0.	0.00
213	0.300	32.00	0.00	0.00	0.00	4.04	10.83	0.00	10.83	0.00	0.92	0.15	0.00	1.07	0.00	20.00	0.00	0.	0.00
214	0.200	32.00	0.00	0.00	0.00	4.02	10.89	0.00	10.89	0.00	0.92	0.15	0.00	1.07	0.00	20.00	0.00	0.	0.00
215	0.100	32.00	0.00	0.00	0.00	4.01	10.94	0.00	10.94	0.00	0.91	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00
216	0.000	32.00	0.00	0.00	0.00	3.99	11.00	0.00	11.00	0.00	0.91	0.15	0.00	1.06	0.00	20.00	0.00	0.	0.00

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

TRAVEL TIME = 25.34 DAYS

MAXIMUM EFFLUENT = 0.75 PERCENT

FLOW = 0.01871 TO 0.44589 m^3/s
DISPERSION = 0.0000 TO 0.0000 m^2/s
VELOCITY = 0.00374 TO 0.08296 m/s
DEPTH = 0.50 TO 0.90 m
WIDTH = 10.00 TO 65.50 m

BOD DECAY = 0.24 TO 0.26 per day
NH3 DECAY = 0.18 TO 0.27 per day
SOD = 0.99 TO 1.06 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.97 TO 3.95 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 31.20 TO 32.00 deg C
DISSOLVED OXYGEN = 1.95 TO 6.38 mg/L

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

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
166	HDWTR	0.39600	32.00	0.00	0.00	0.00	1.39	3.81	0.00	3.81	0.00	1.14	0.49	0.00	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	PRISM m³	TIDAL VELO m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN
166	1.40	1.30	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
167	1.30	1.20	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
168	1.20	1.10	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
169	1.10	1.00	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
170	1.00	0.90	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
171	0.90	0.80	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
172	0.80	0.70	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
173	0.70	0.60	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
174	0.60	0.50	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
175	0.50	0.40	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
176	0.40	0.30	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
177	0.30	0.20	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
178	0.20	0.10	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
179	0.10	0.00	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.000	0.006		
TOT					2.52				86240.00	61600.00							
AVG				0.0064			1.40	44.00			61.60						
CUM					2.52												

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT *	ABOD#2 DECAY *	BKGD SOD *	FULL SOD 1/da	CORR DECAY 1/da	ORGN SETT *	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 DECAY 1/da	NCM SETT 1/da
166	1.300	7.30	0.62	0.24	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.97	0.03	0.00	0.14	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
167	1.200	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.20	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
168	1.100	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.21	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
169	1.000	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.22	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
170	0.900	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.23	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
171	0.800	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.23	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
172	0.700	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.24	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
173	0.600	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.24	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
174	0.500	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.24	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
175	0.400	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.24	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
176	0.300	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

177	0.200	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
178	0.100	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
179	0.000	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.50 0.15 0.00 0.00 0.00 0.00 0.00 0.50 0.02 0.00 0.13 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
166	1.300	32.00	0.00	0.00	0.00	1.82	4.05	0.00	4.05	0.00	1.13	0.48	0.00	1.62	0.00	20.00	0.00	0.	0.00
167	1.200	32.00	0.00	0.00	0.00	2.14	4.27	0.00	4.27	0.00	1.13	0.47	0.00	1.60	0.00	20.00	0.00	0.	0.00
168	1.100	32.00	0.00	0.00	0.00	2.43	4.48	0.00	4.48	0.00	1.12	0.46	0.00	1.58	0.00	20.00	0.00	0.	0.00
169	1.000	32.00	0.00	0.00	0.00	2.68	4.68	0.00	4.68	0.00	1.12	0.45	0.00	1.57	0.00	20.00	0.00	0.	0.00
170	0.900	32.00	0.00	0.00	0.00	2.89	4.87	0.00	4.87	0.00	1.11	0.43	0.01	1.55	0.00	20.00	0.00	0.	0.00
171	0.800	32.00	0.00	0.00	0.00	3.08	5.05	0.00	5.05	0.00	1.11	0.42	0.01	1.54	0.00	20.00	0.00	0.	0.00
172	0.700	32.00	0.00	0.00	0.00	3.24	5.22	0.00	5.22	0.00	1.10	0.41	0.01	1.52	0.00	20.00	0.00	0.	0.00
173	0.600	32.00	0.00	0.00	0.00	3.38	5.39	0.00	5.39	0.00	1.10	0.40	0.01	1.51	0.00	20.00	0.00	0.	0.00
174	0.500	32.00	0.00	0.00	0.00	3.50	5.54	0.00	5.54	0.00	1.09	0.38	0.01	1.49	0.00	20.00	0.00	0.	0.00
175	0.400	32.00	0.00	0.00	0.00	3.60	5.69	0.00	5.69	0.00	1.09	0.37	0.01	1.47	0.00	20.00	0.00	0.	0.00
176	0.300	32.00	0.00	0.00	0.00	3.69	5.84	0.00	5.84	0.00	1.08	0.36	0.01	1.46	0.00	20.00	0.00	0.	0.00
177	0.200	32.00	0.00	0.00	0.00	3.76	5.98	0.00	5.98	0.00	1.08	0.35	0.01	1.44	0.00	20.00	0.00	0.	0.00
178	0.100	32.00	0.00	0.00	0.00	3.83	6.11	0.00	6.11	0.00	1.07	0.34	0.01	1.43	0.00	20.00	0.00	0.	0.00
179	0.000	32.00	0.00	0.00	0.00	3.88	6.23	0.00	6.23	0.00	1.07	0.33	0.01	1.41	0.00	20.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL calibration for Bayou Blue
ICWWtoBlue FTN Field Survey calibration

TRAVEL TIME = 2.52 DAYS

MAXIMUM EFFLUENT = 0.00 PERCENT

FLOW = 0.39600 TO 0.39600 m³/s
DISPERSION = 0.0000 TO 0.0000 m²/s
VELOCITY = 0.00643 TO 0.00643 m/s
DEPTH = 1.40 TO 1.40 m
WIDTH = 44.00 TO 44.00 m

BOD DECAY = 0.24 TO 0.26 per day
NH3 DECAY = 0.14 TO 0.25 per day
SOD = 0.97 TO 1.06 g/m²/d
NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.62 TO 0.62 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.03 TO 0.03 per day

ORG-N SETTLING = 0.00 TO 0.00 per day

TEMPERATURE = 32.00 TO 32.00 deg C
DISSOLVED OXYGEN = 1.82 TO 3.88 mg/L

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration

REACH SUMMARY REPORT FOR BayouBlue#1

RCH NO.	REACH NAME	DIST km	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BayouBlue#1	20.20	3.70	16.50	19.67	0.04989	0.00971	0.500	10.00	1.762	0.032	1.640	32.81	
3	BayouBlue#2	3.70	0.00	3.70	5.66	0.44589	0.00756	0.900	65.50	15.744	0.025	2.953	214.91	

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration

REACH SUMMARY REPORT FOR ICWWtoBlue

RCH NO.	REACH NAME	DIST km	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
2	ICWWtoBlue	1.40	0.00	1.40	2.52	0.39600	0.00643	1.400	44.00	13.983	0.021	4.593	144.36	

DISSOLVED OXYGEN LOADING FOR REACH 1: BayouBlue#1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	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
1	57.	0.	-67.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-68.4	68.4	0.00
2	67.	0.	-75.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-77.2	77.2	0.00
3	75.	0.	-84.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-85.5	85.5	0.00
4	84.	0.	-91.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-93.3	93.3	0.00
5	91.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	9.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-100.7	100.7	0.00
6	99.	0.	-106.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-107.7	107.7	0.00
7	106.	0.	-112.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-114.3	114.3	0.00
8	112.	0.	-119.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-120.6	120.6	0.00
9	119.	0.	-125.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-126.5	126.5	0.00
10	125.	0.	-130.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-132.2	132.2	0.00
11	130.	0.	-136.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-137.5	137.5	0.00
12	136.	0.	-141.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-142.6	142.6	0.00
13	141.	0.	-145.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-147.4	147.3	0.00
14	145.	0.	-150.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-151.9	151.9	0.00
15	150.	0.	-154.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-156.2	156.2	0.00

16	154.	0.	-158.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-160.3	160.3	0.00
17	158.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-164.1	164.1	0.00
18	162.	0.	-166.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-167.8	167.8	0.00
19	166.	0.	-169.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-171.3	171.3	0.00
20	169.	0.	-173.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-174.6	174.6	0.00
21	173.	0.	-176.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-177.7	177.7	0.00
22	176.	0.	-179.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-180.7	180.7	0.00
23	179.	0.	-182.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-183.5	183.5	0.00
24	182.	0.	-184.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-186.2	186.2	0.00
25	184.	0.	-187.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-188.7	188.7	0.00
26	187.	0.	-189.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-191.1	191.1	0.00
27	189.	0.	-192.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-193.4	193.4	0.00
28	192.	0.	-194.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-195.6	195.6	0.00
29	194.	0.	-196.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-197.6	197.6	0.00
30	196.	0.	-198.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-199.6	199.6	0.00
31	198.	0.	-200.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-201.5	201.5	0.00
32	200.	0.	-201.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-203.2	203.2	0.00
33	201.	0.	-203.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-204.9	204.9	0.00
34	203.	0.	-205.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-206.5	206.5	0.00
35	205.	0.	-206.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-208.0	208.0	0.00
36	206.	0.	-208.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-209.5	209.5	0.00
37	208.	0.	-209.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-210.8	210.8	0.00
38	209.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-212.2	212.2	0.00
39	210.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-213.4	213.4	0.00
40	211.	0.	-213.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-214.6	214.6	0.00
41	213.	0.	-214.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-215.7	215.7	0.00
42	214.	0.	-215.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-216.8	216.8	0.00
43	215.	0.	-216.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-217.8	217.8	0.00
44	216.	0.	-217.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-218.8	218.8	0.00
45	217.	0.	-218.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-219.7	219.7	0.00
46	218.	0.	-219.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-220.6	220.6	0.00
47	219.	0.	-219.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-221.5	221.5	0.00
48	219.	0.	-220.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-222.3	222.3	0.00
49	220.	0.	-221.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-223.0	223.0	0.00
50	221.	0.	-222.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-223.8	223.8	0.00
51	222.	0.	-223.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-224.5	224.5	0.00
52	223.	0.	-223.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-225.2	225.2	0.00
53	223.	0.	-224.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-225.8	225.8	0.00
54	224.	0.	-224.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-226.4	226.4	0.00
55	224.	0.	-225.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-227.0	227.0	0.00
56	225.	0.	-226.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-227.6	227.6	0.00
57	226.	0.	-226.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-228.1	228.1	0.00
58	226.	0.	-227.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-228.7	228.7	0.00
59	227.	0.	-227.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-229.2	229.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: BayouBlue#1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT

60	227.	0.	-228.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-229.6	229.6	0.00
61	228.	0.	-228.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-230.1	230.1	0.00
62	228.	0.	-229.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-230.5	230.5	0.00
63	229.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	-218.	1.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-229.9	229.9	0.00
64	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-11.9	11.9	0.00
65	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-11.7	11.7	0.00
66	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-11.6	11.6	0.00
67	10.	0.	-9.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-11.6	11.6	0.00
68	9.	0.	-9.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-11.7	11.7	0.00
69	9.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-11.7	11.7	0.00
70	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-11.8	11.8	0.00
71	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-11.9	11.9	0.00
72	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.0	12.0	0.00
73	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.1	12.1	0.00
74	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.2	12.2	0.00
75	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.3	12.3	0.00
76	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.4	12.4	0.00
77	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.5	12.5	0.00
78	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.6	12.6	0.00
79	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.7	12.7	0.00
80	10.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.9	12.9	0.00
81	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.0	13.0	0.00
82	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.1	13.1	0.00
83	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.2	13.2	0.00
84	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.3	13.3	0.00
85	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.4	13.4	0.00
86	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.6	13.6	0.00
87	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.7	13.7	0.00
88	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.8	13.8	0.00
89	11.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.9	13.9	0.00
90	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.1	14.1	0.00
91	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.2	14.2	0.00
92	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.3	14.3	0.00
93	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.4	14.4	0.00
94	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.6	14.6	0.00
95	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.7	14.7	0.00
96	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.8	14.8	0.00
97	12.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.9	14.9	0.00
98	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.0	15.0	0.00
99	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.2	15.2	0.00
100	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.3	15.3	0.00
101	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.4	15.4	0.00
102	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.5	15.5	0.00
103	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.7	15.7	0.00
104	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.8	15.8	0.00
105	13.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.0	16.0	0.00
106	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.1	16.1	0.00
107	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.2	16.2	0.00
108	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.3	16.3	0.00
109	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.4	16.4	0.00

110	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.6	16.6	0.00
111	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.7	16.7	0.00
112	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.8	16.8	0.00
113	14.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.9	16.9	0.00
114	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.1	17.1	0.00
115	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.2	17.2	0.00
116	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.3	17.3	0.00
117	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.5	17.5	0.00
118	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.6	17.6	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: BayouBlue#1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH 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
119	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.8	17.8	0.00
120	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.9	17.9	0.00
121	15.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.0	18.0	0.00
122	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.1	18.1	0.00
123	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.3	18.3	0.00
124	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.4	18.4	0.00
125	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.5	18.5	0.00
126	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.6	18.6	0.00
127	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.7	18.7	0.00
128	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.9	18.9	0.00
129	16.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.0	19.0	0.00
130	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.1	19.1	0.00
131	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.3	19.3	0.00
132	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.4	19.4	0.00
133	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.5	19.5	0.00
134	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.6	19.6	0.00
135	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.8	19.8	0.00
136	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.9	19.9	0.00
137	17.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.0	20.0	0.00
138	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.1	20.1	0.00
139	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.3	20.3	0.00
140	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.4	20.4	0.00
141	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.5	20.5	0.00
142	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.7	20.7	0.00
143	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.8	20.8	0.00
144	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.9	20.9	0.00
145	18.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.0	21.0	0.00
146	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.2	21.2	0.00
147	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.3	21.3	0.00
148	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.4	21.4	0.00
149	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.5	21.5	0.00
150	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.7	21.7	0.00
151	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.8	21.8	0.00
152	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.9	21.9	0.00
153	19.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.1	22.1	0.00

154	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.2	22.2	0.00
155	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.3	22.3	0.00
156	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.4	22.4	0.00
157	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.6	22.6	0.00
158	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.7	22.7	0.00
159	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.8	22.8	0.00
160	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.9	22.9	0.00
161	20.	0.	-21.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-23.1	23.1	0.00
162	21.	0.	-21.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-23.2	23.2	0.00
163	21.	0.	-21.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-23.3	23.3	0.00
164	21.	0.	-21.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-23.4	23.4	0.00
165	21.	0.	-21.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-23.6	23.6	0.00
180	21.	133.	-158.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-11.	-2.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-177.5	177.5	0.00
181	158.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-11.	-2.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-181.1	181.1	0.00
182	161.	0.	-164.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-11.	-2.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-184.0	184.0	0.00
183	164.	0.	-166.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-11.	-2.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-186.4	186.4	0.00
184	166.	0.	-168.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-12.	-2.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-188.2	188.2	0.00
185	168.	0.	-169.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-12.	-2.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-189.7	189.7	0.00
186	169.	0.	-170.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-12.	-2.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-190.8	190.8	0.00
187	170.	0.	-170.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-13.	-2.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-191.5	191.5	0.00
188	170.	0.	-171.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-13.	-2.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-192.1	192.1	0.00
189	171.	0.	-171.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-13.	-2.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-192.4	192.4	0.00
190	171.	0.	-171.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-13.	-2.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-192.5	192.5	0.00
191	171.	0.	-170.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-13.	-2.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-192.4	192.4	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: BayouBlue#1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WSLD OUT	WITH IN	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
192	170.	0.	-170.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-14.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-192.2	192.2	0.00
193	170.	0.	-170.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-14.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-192.0	192.0	0.00
194	170.	0.	-169.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-14.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-191.6	191.6	0.00
195	169.	0.	-169.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-14.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-191.1	191.1	0.00
196	169.	0.	-168.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-14.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-190.6	190.6	0.00
197	168.	0.	-167.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-190.1	190.1	0.00
198	167.	0.	-166.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-189.5	189.5	0.00
199	166.	0.	-166.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-188.9	188.9	0.00
200	166.	0.	-165.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-188.3	188.3	0.00
201	165.	0.	-164.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-187.6	187.6	0.00
202	164.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-187.0	187.0	0.00
203	163.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-186.3	186.3	0.00
204	163.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-185.7	185.7	0.00
205	162.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-185.0	185.0	0.00
206	161.	0.	-160.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-184.4	184.4	0.00
207	160.	0.	-160.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-183.8	183.8	0.00
208	160.	0.	-159.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-183.1	183.1	0.00
209	159.	0.	-158.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-182.5	182.5	0.00
210	158.	0.	-158.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-181.9	181.9	0.00
211	158.	0.	-157.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-181.3	181.3	0.00

212	157.	0.	-156.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-17.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-180.8	180.8	0.00
213	156.	0.	-156.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-17.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-180.2	180.2	0.00
214	156.	0.	-155.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-17.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-179.7	179.7	0.00
215	155.	0.	-154.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-17.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-179.2	179.1	0.00
216	154.	0.	-154.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-17.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-178.6	178.6	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: ICWWtoBlue

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
166	48.	0.	-62.	0.	0.	0.	0.	0.	0.	0.	0.	21.	-6.	-2.	0.	0.	-4.	0.	0.	0.	6.	0.	0.	-74.1	74.2	0.03
167	62.	0.	-73.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-7.	-3.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-87.4	87.4	0.00
168	73.	0.	-83.	0.	0.	0.	0.	0.	0.	0.	0.	19.	-7.	-3.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-97.6	97.6	0.00
169	83.	0.	-92.	0.	0.	0.	0.	0.	0.	0.	0.	18.	-8.	-3.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-106.4	106.4	0.00
170	92.	0.	-99.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-8.	-3.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-114.1	114.1	0.00
171	99.	0.	-105.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-8.	-3.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-120.7	120.7	0.00
172	105.	0.	-111.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-8.	-3.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-126.5	126.5	0.00
173	111.	0.	-116.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-9.	-3.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-131.4	131.4	0.00
174	116.	0.	-120.	0.	0.	0.	0.	0.	0.	0.	0.	15.	-9.	-2.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-135.7	135.7	0.00
175	120.	0.	-123.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-9.	-2.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-139.4	139.4	0.00
176	123.	0.	-126.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-9.	-2.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-142.6	142.6	0.00
177	126.	0.	-129.	0.	0.	0.	0.	0.	0.	0.	0.	14.	-10.	-2.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-145.3	145.3	0.00
178	129.	0.	-131.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-10.	-2.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-147.7	147.7	0.00
179	131.	0.	-133.	0.	0.	0.	0.	0.	0.	0.	0.	13.	-10.	-2.	0.	0.	-5.	0.	0.	0.	6.	0.	0.	-149.6	149.6	0.00

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration

INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD#1	BOD#2	ORG-N	NH3-N	NO3-N	PHOS	CHL A	NCM
	m^3/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d		
HEADWATER FLOW	0.792	105	290.8	0	80.1	30.5	0	0	0	0
INCREMENTAL INFLOW	0.05	7.3	20.3	0	5.2	1.7	0	0	0	0
INCREMENTAL OUTFLOW	0	0	0	0	0	0	0	0	0	0
WASTELOADS	0	0.1	1	0	0	0	0	0	0	0
WITHDRAWLS	-0.396	-217.6	-207	0	-40.2	-11.8	-0.3	0	0	0
FLOW THRU LOWER BNDRY	-0.446	-153.8	-423.6	0	-35.1	-5.7	0	0	0	0
DISPERSION THRU LOWER BNDRY		0	0	0	0	0	0	0	0	0
DISPERSION THRU HDWTR BNDRY		0	0	0	0	0	0	0	0	0
NON-POINT INPUT		0	1140	0	0					0

NATURAL REAERATION		1334.6								
DAM REAERATION		0								
BACKGROUND SOD		-494.4								
BOD#1 DECAY		-821.5	-821.5							
BOD#1 SETTLING		0	0							
ANAEROBIC BOD#1 DECAY			0							
BOD#2 DECAY		0		0						
BOD#2 SETTLING		0		0						
ANAEROBIC BOD#2 DECAY				0						
ORG-N DECAY		0			-10	10				
ORG-N SETTLING					0	0				
NH3 DECAY		-107.4				-24.8	24.8			
BACKGROUND NH3 SOURCE						0				
OTHER DENITRIFICATION							0			
PHOSPHORUS SOURCE								0		
ALGAE PHOTOSYNTHESIS		347.7				0	-33.4	0	0	
ALGAE RESPIRATION		0				0		0	0	
ALGAE SETTLING		0							0	
MACRO PHOTOSYNTHESIS		0				0	0	0		
NCM DECAY		0								0
NCM SETTLING		0								0
TOTAL INPUTS	0.842	1794.8	1452.1	0	85.3	42.2	24.8	0	0	0
TOTAL OUTPUTS	-0.842	-1794.9	-1452.1	0	-85.3	-42.3	-33.7	0	0	0
NET CONVERGENCE ERROR	0	-0.1	0	0	0	0	-8.9	0	0	0

.....EXECUTION COMPLETED